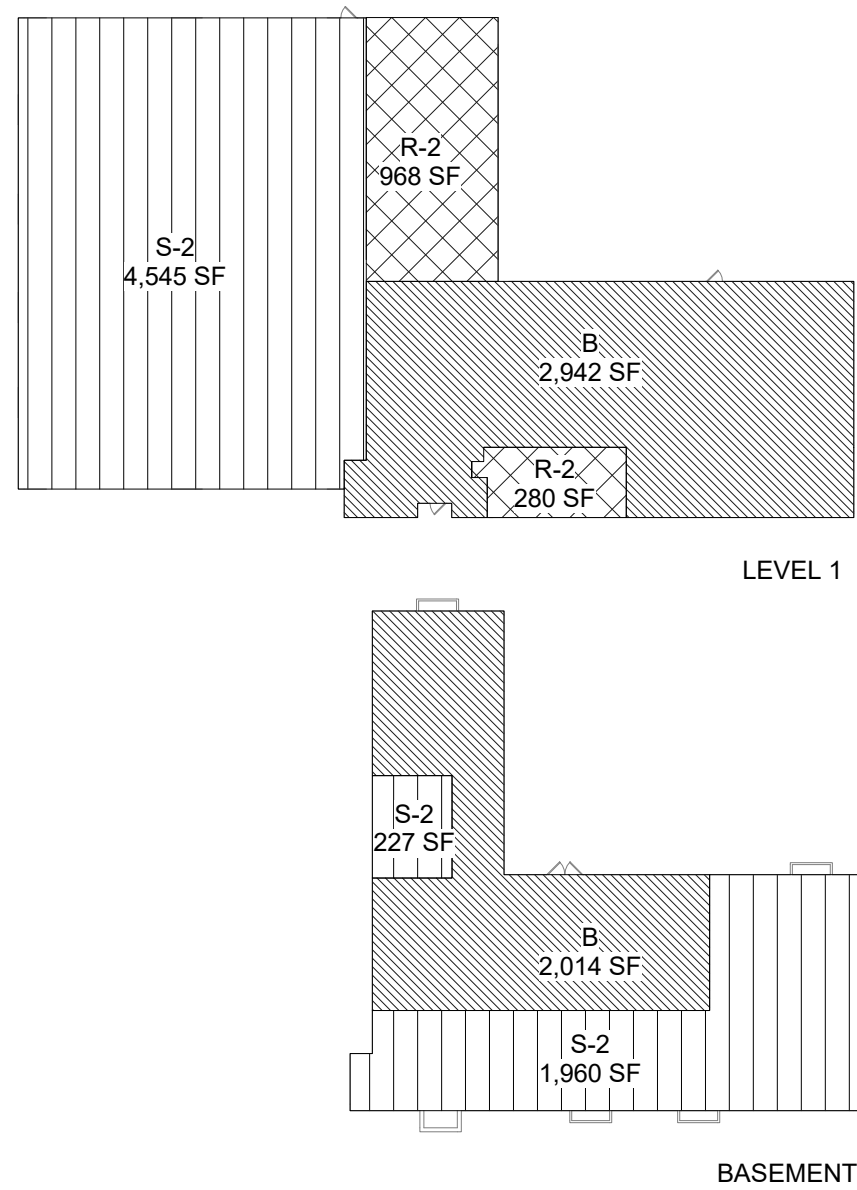


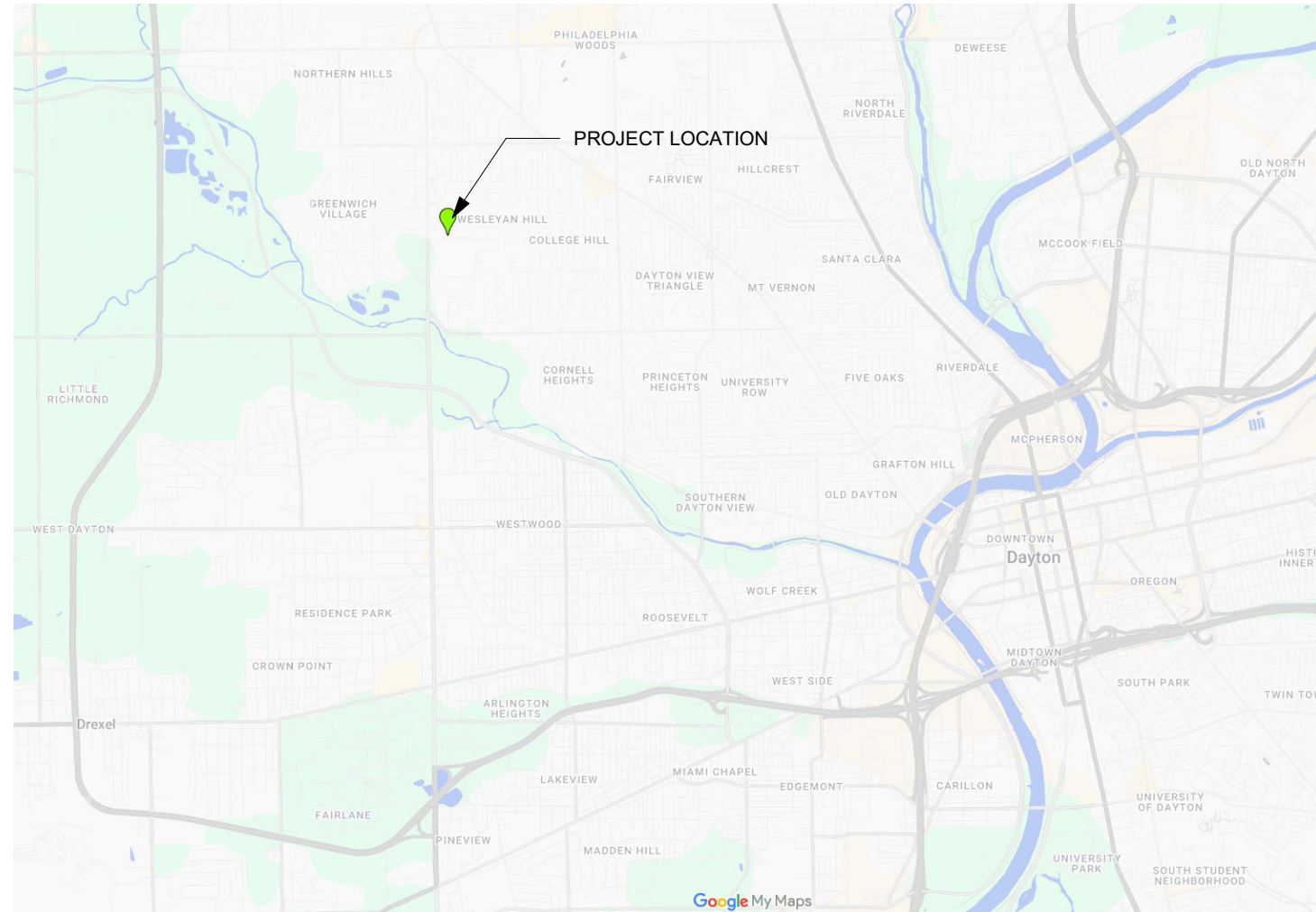
CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT**  
**STATION 16**

4111 Kings Highway, Dayton, Ohio, 45406

USE GROUP PLAN



VICINITY MAP



ARCHITECT

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Englewood, Ohio 45322  
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**Nauman & Zelinski, LLC**

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**The Kleingers Group**

6219 Centre Park Dr.  
West Chester, Ohio 45069  
(513) 779-7851

CODE INFORMATION

(OBC 2024, OEBC 2024)

2024 OHIO EXISTING BUILDING CODE (OEBC)

COMPLIANCE METHOD

SECTION 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD.  
COMPLIANCE WITH OEBC SECTIONS 302-309 AND CHAPTER 5.

2024 OHIO BUILDING CODE (OBC)

PROJECT DESCRIPTION

PROJECT CONSISTS OF INTERIOR RENOVATION OF AN EXISTING FIRE STATION  
FOR THE CITY OF DAYTON.

USE GROUP CLASSIFICATION (REFER TO USE GROUP PLAN THIS SHEET)

OBC (302) USE GROUP: MIXED USE - UNSEPARATED  
B: STATION OFFICES AND LIVING AREAS  
R-2: CREW SLEEPING QUARTERS  
S-2: APPARATUS BAYS AND STORAGE AREAS

OBC (508.3) MIXED OCCUPANCIES:  
UNSEPARATED MIXED USE  
EXCEPTION 2: R-2 DWELLING AND SLEEPING UNITS SHALL BE SEPARATED FROM  
OTHER OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE  
REQUIREMENTS OF SECTION 420.

OBC (708.3) FIRE RESISTANCE RATING:  
EXCEPTION 2: DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF  
TYPE IIB, IIBB, AND VB CONSTRUCTION SHALL HAVE FIRE-RESISTANT RATINGS OF  
NOT LESS THAN 1/2-HOUR IN BUILDING EQUIPPED THROUGHOUT WITH AN  
AUTOMATIC SPRINKLER SYSTEM.

SLEEPING UNITS TO HAVE 20 MIN. RATED DOORS AND FRAMES IN ACCORDANCE  
WITH OBC TABLE 716.1.

CONSTRUCTION TYPE CLASSIFICATION

OBC (602) CONSTRUCTION TYPE = IIB

HEIGHT AND AREA LIMITATIONS

OBC (503) ALLOWABLE AREA = 16,000 SF (BASED ON R-2, MOST RESTRICTIVE)  
ACTUAL AREA = 12,936 SF

OBC ALLOWABLE HEIGHT = 55' - 0" (3 STORIES)  
ACTUAL HEIGHT = 25' - 0"

HEIGHT AND AREA REMAIN UNCHANGED.

OCCUPANT LOAD

OBC (1004) ALLOWABLE= SF / SF PER OCCUPANT  
FIRE STATION: B: 2,942 SF / 150 = 20  
R-2: 1,247 SF / 200 = 6  
S-2: 8,747 SF / 300 = 30  
TOTAL = 56 OCCUPANTS

FIRE PROTECTION

BUILDING DESCRIPTION : LIMITED AREA FIRE SUPPRESSION FOR R-2 USES.

PLUMBING FIXTURES REQUIRED

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
B	1	1	0	1	1
R-2	1	1	1	1	1
S-2	1	1	0	1	1
TOTAL	3	3	1	1	1

PLUMBING FIXTURES PROPOSED

USE GROUP	WC	LAVS	SHOWERS	D.F.	SERVICE SINK
TOTAL	5	7	4	1	1

STORM SHELTER PROVISIONS

STORM SHELTER IS NOT REQUIRED FOR EXISTING EMERGENCY FACILITY PER OEBC  
2024 SECTION 503.19.

DRAWING INDEX

GENERAL

G0.1 COVER SHEET

CIVIL

C100 UTILITY PLAN

ARCHITECTURAL

A0.01 ABBREVIATIONS AND SYMBOLS  
A0.02 FINISH SCHEDULES  
A0.03 DOOR SCHEDULES  
A0.04 WALL TYPES  
A0.05 DOOR & INTERIOR DETAILS  
A0.06 INTERIOR DETAILS  
A1.11 DEMOLITION PLAN  
A1.12 REFERENCE PLANS  
A1.13 DIMENSION PLANS  
A1.14 EQUIPMENT PLAN  
A2.11 DEMOLITION REFLECTED CEILING PLAN  
A2.12 REFLECTED CEILING PLANS  
A7.11 INTERIOR ELEVATIONS  
A7.12 INTERIOR ELEVATIONS  
A7.13 INTERIOR ELEVATIONS  
A8.01 CASEWORK DETAILS  
A8.02 CASEWORK DETAILS  
A8.03 CASEWORK DETAILS  
A9.02 FINISHES FLOOR PLANS

FIRE PROTECTION

F0.1 LEGENDS AND SCHEDULES  
F1.1 FIRE SUPPRESSION PLAN

PLUMBING

P0.1 LEGENDS AND SCHEDULES  
P0.2 MATERIAL SCHEDULES  
P1.0 BASEMENT DEMOLITION PLAN  
P1.1 FIRST FLOOR DEMOLITION PLAN  
P2.0 BASEMENT NEW WORK PLAN  
P2.1 FIRST FLOOR NEW WORK PLAN  
P3.1 DETAILS  
P4.1 SOIL, WASTE, AND VENT DIAGRAM

MECHANICAL

H0.1 LEGENDS AND SCHEDULES  
H0.2 MATERIAL SCHEDULES  
H0.3 EQUIPMENT SCHEDULES  
H1.1 DEMOLITION PLAN  
H2.0 NEW WORK PLAN - BASEMENT  
H2.1 NEW WORK PLAN - GROUND FLOOR  
H2.2 NEW WORK PLAN - ROOF  
H3.1 DETAILS  
H3.2 DETAILS  
H3.3 DETAILS  
H3.4 DETAILS  
H3.5 DETAILS  
H4.1 CONTROLS  
H4.2 CONTROLS  
H5.1 VENTILATION

ELECTRICAL

E0.1 LEGEND  
E0.2 SCHEDULES  
E0.3 PANEL SCHEDULES  
E0.4 DETAILS  
E1.0 BASEMENT DEMO PLAN  
E1.1 FIRST FLOOR DEMO PLAN  
E2.0 NEW BASEMENT LIGHTING PLAN  
E2.1 NEW FIRST FLOOR LIGHTING PLAN  
E3.0 NEW BASEMENT POWER AND SYSTEMS PLAN  
E3.1 NEW FIRST FLOOR POWER AND SYSTEMS PLAN  
E3.2 NEW ROOF POWER AND SYSTEMS PLAN

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CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT**  
**STATION 16**

4111 Kings Highway, Dayton, Ohio, 45406

ISSUE		
NO.	DATE	DESCRIPTION
1	08/01/25	FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2
3	11/11/2025	CODE REVISIONS

DATE	08/01/25
JOB NO.	4284.01
DRAWN	AEE
CHECKED	CMS/TJB
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TITLE	COVER SHEET

SHEET NO.

**G0.1**



GENERAL NOTES

1. THE CITY OF DAYTON / MONTGOMERY COUNTY, AND THE CURRENT EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (ODOT CMS), INCLUDING ALL SUPPLEMENTS, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THIS PLAN. IGNORE REFERENCES TO MEASUREMENT AND PAYMENT IN THE ODOT CMS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICTS BETWEEN THE ODOT CMS AND THE CITY OF DAYTON / MONTGOMERY COUNTY REQUIREMENTS, THE CITY OF DAYTON / MONTGOMERY COUNTY REQUIREMENTS SHALL PREVAIL.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (8-1-1 OR 1-800-362-2764) 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES WHO ARE NON-MEMBERS OF THE OHIO UTILITIES PROTECTION SERVICE AT LEAST 48 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
3. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
4. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS.
5. THE CONTRACTOR IS REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES CONCERNING ALL CONDITIONS AFFECTING THE SCOPE OF THE WORK. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THEM FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE CONTRACT.

UTILITY NOTES

1. ALL DRAIN TILE AND STORM SEWERS DAMAGED, DISTURBED OR REMOVED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH THE SAME QUALITY PIPE OR BETTER, MAINTAINING THE SAME GRADIENT AS EXISTING. THE DRAIN TILE AND/OR STORM SEWER SHALL BE CONNECTED TO THE CURB SUBDRAIN, STORM SEWER SYSTEM OR OUTLETTED INTO THE ROADWAY DITCH AS APPLICABLE. REPLACED DRAIN TILE/STORM SEWER SHALL BE LAID ON COMPACTED BEDDING EQUAL IN DENSITY TO SURROUNDING STRUTUM. REPLACEMENT SHALL BE DONE AT THE TIME OF THE BACKFILL OPERATION. COST OF THIS WORK TO BE INCLUDED IN THE PRICE BID FOR THE PROJECT.
2. ALL EXISTING UTILITIES KNOWN TO EXIST HAVE BEEN SHOWN ON THESE PLANS IN THEIR APPROXIMATE LOCATION. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES SHOWN. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROTECTION AND/OR RELOCATION OF ANY UTILITIES THAT MAY EXIST AND ARE NOT SHOWN.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY.
4. UTILITY POLES WITHIN INFLUENCE OF THE UTILITY OPERATIONS SHALL BE REINFORCED BY THE UTILITY COMPANY PRIOR TO THESE CONSTRUCTION ACTIVITIES. NOTIFICATION OF THE UTILITY COMPANY PRIOR TO CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR TO REPLACE ANY PAVEMENT OR UTILITIES DAMAGED WHICH ARE NOT SPECIFIED TO BE REMOVED ON THESE PLANS.
6. ANY FIELD TILE CUT IN EXCAVATION WHICH DRAINS IN AN OFFSITE AREA MUST BE TIED INTO THE STORM DRAINAGE SYSTEM.
7. THE FLOW IN ALL SEWERS, DRAINS, FIELD TILES AND WATERCOURSES ENCOUNTERED SHALL BE MAINTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND WHENEVER SUCH WATERCOURSES AND DRAINS ARE DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK, THEY SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE TO A CONDITION SATISFACTORY TO THE ENGINEER.
8. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10" HORIZONTALLY FROM ANY SANITARY SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE. ALL WATER SHALL HAVE A MINIMUM OF 4.5' OF COVER.
9. WATERLINE 4 INCHES AND LARGER SHALL BE DUCTILE IRON PIPE CLASS 52, MINIMUM 250 PSI, AWWA C151 OR PVC AWWA C900, DR 14, PRESSURE CLASS 305 PSI. FIRE SERVICE PIPING SHALL MEET THE REQUIREMENTS OF NFPA 24. WATERLINE 2 INCHES AND UNDER TO BE TYPE "K" SOFT COPPER TUBING, ASTM B 88, OR APPROVED POLYTUBING.
10. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35 PER ODOT ITEM 707.45, PVC PROFILE PIPE PER ODOT ITEM 707.45, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 611. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.015 (N=0.013) OR LESS.
11. ALL EXISTING INVERTS ALONG PROPOSED PIPE ALIGNMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OF THE SEWER.
12. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
13. FOR EXACT LOCATION OF DOWN SPOUTS & ROOF DRAINS, COORDINATE WITH CONSTRUCTION MANAGER.

GENERAL NOTES

ALL INFORMATION SHOWN IS FROM A COMPILATION OF GIS AND RECORD INFORMATION. CONTRACTOR SHALL VERIFY ALL INFORMATION IN THE FIELD.

ALL VERTICAL AND HORIZONTAL BENDS IN THE PROPOSED FIRE SERVICE SHALL HAVE RESTRAINED JOINTS AND THRUST BLOCKS PER CITY STANDARDS.

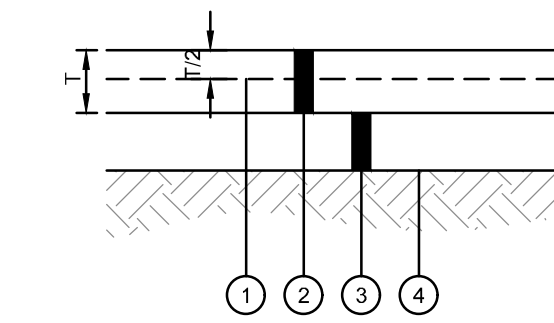
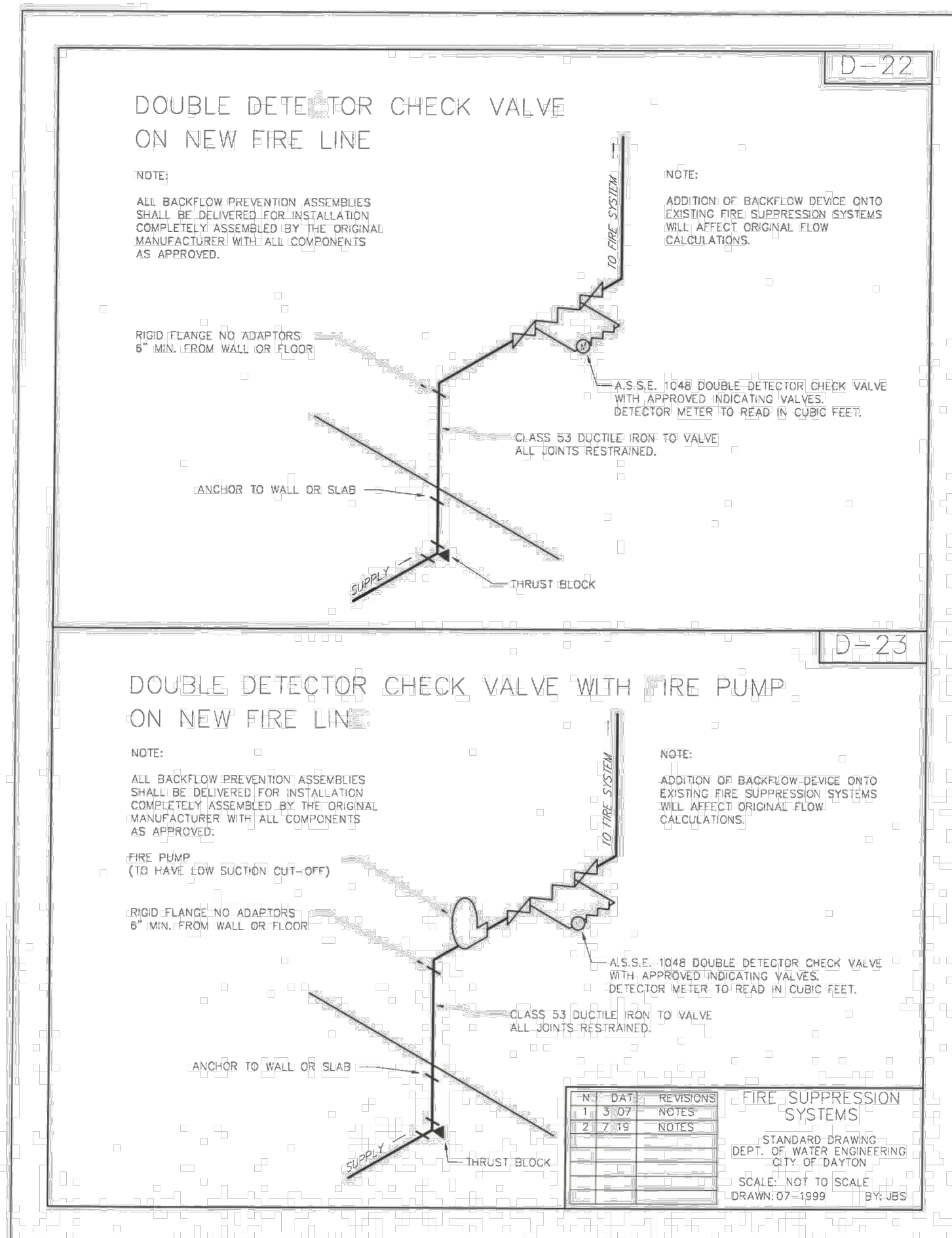
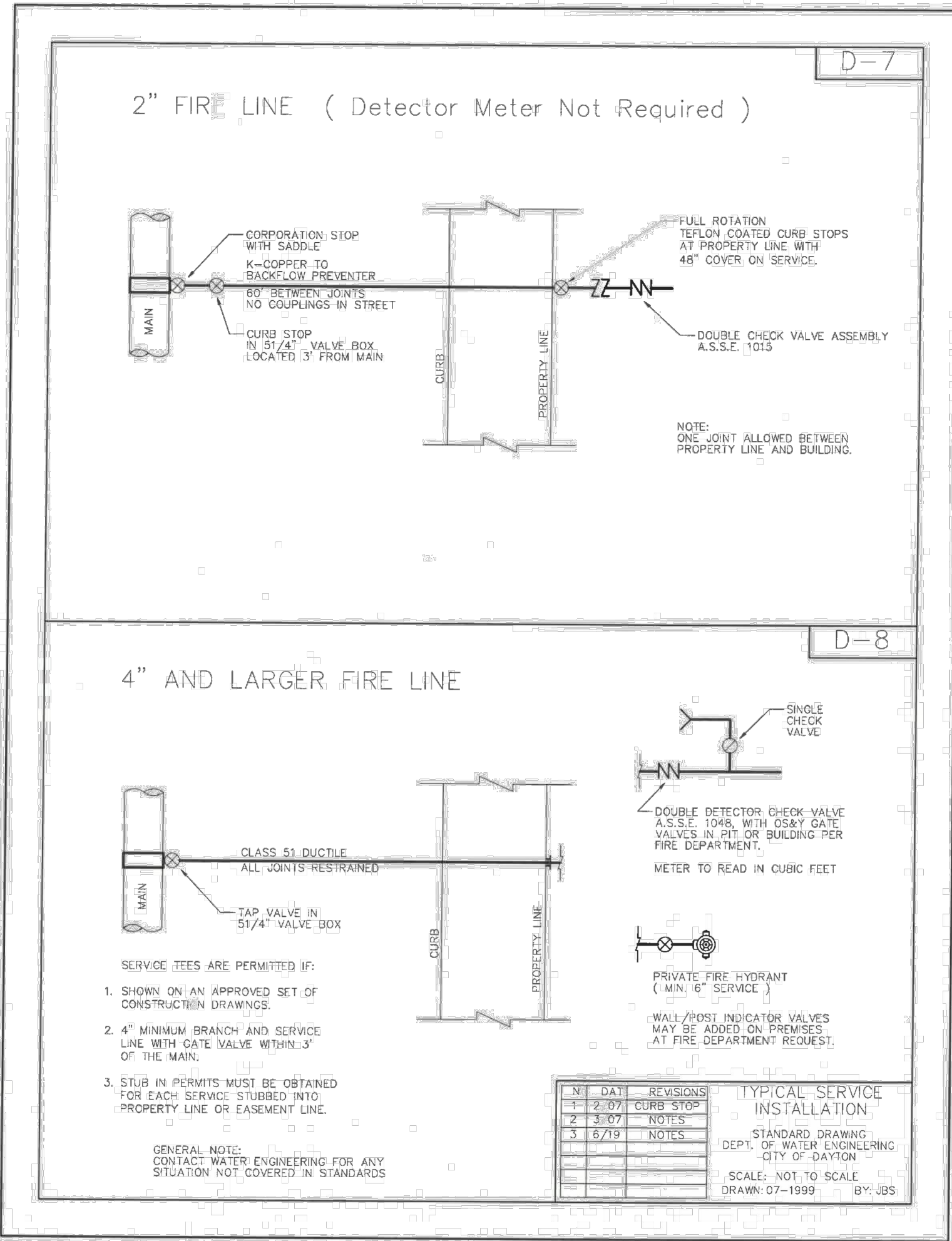
CONTRACTOR TO REMOVE OR ABANDON EXISTING DOWNSPOUT COLLECTOR LINES

CODED NOTES

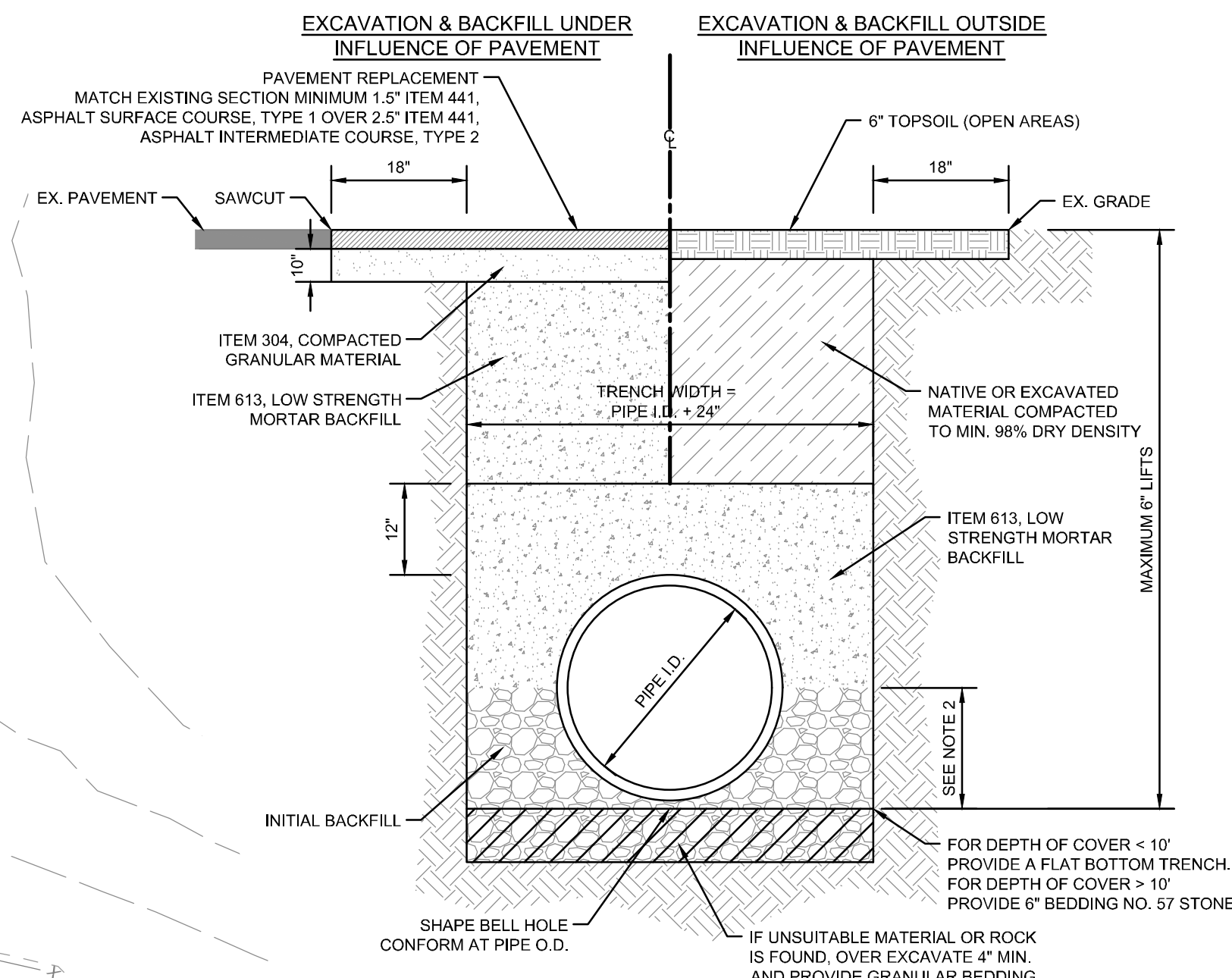
1. PROPOSED 6" FIRE SERVICE PER CITY OF DAYTON WATER DEPT. STANDARDS D-8, D-22
2. CITY INSTALLS FIRE SERVICE TAP AND WATER SERVICE TO THE PROPERTY LINE. ROAD AND CURB RESTORATION. SITE CONTRACTOR IS RESPONSIBLE FOR REMAINDER OF FIRE SERVICE AND RESTORATION.
3. REMOVE AND REPLACE PAVEMENT AS NECESSARY TO INST. ALL UTILITIES. NEW PAVEMENT TO MATCH EXISTING PAVEMENT PER DETAIL 1/C100. SAWCUT CONCRETE AT NEAREST JOINT.
4. REMOVE ABOVE GRADE PVC
5. ABOVE GRADE PVC TO REMAIN
6. CONNECT TO EXISTING MANHOLE AT INVERT APPROXIMATELY = 817.49. CONTRACTOR TO FIELD VERIFY INVERT PRIOR TO STARTING CONSTRUCTION.
7. NEW SECONDARY ELECTRIC SERVICE. FOR REFERENCE ONLY. SEE SHEET E3.1 FOR MORE DETAIL. ALL WORK TO BE COORDINATED WITH UTILITY PROVIDER



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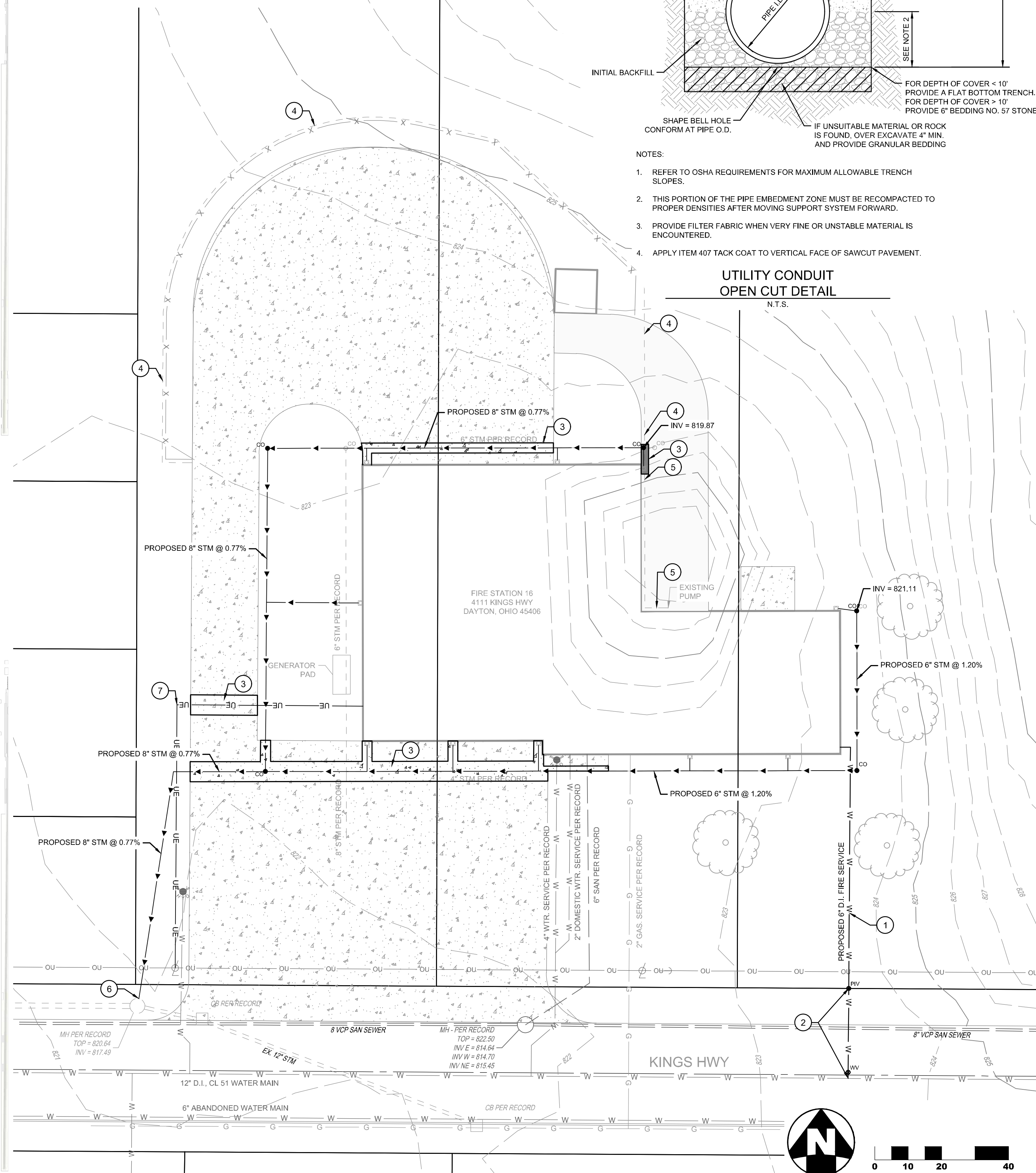


1. RIGID REPLACEMENT REPAIR PER ODOT SCD BP-2.5
  2. ODOT ITEM 452 PORTLAND CEMENT CONCRETE PAVEMENT. MATCH EXISTING PAVEMENT THICKNESS AND REINFORCEMENT
  3. 6\"/>
  4. SUBGRADE COMPACTION, REFERENCE ODOT ITEM 204, EARTHWORK SPECIFICATION 312000 AND SOILS REPORT
- HEAVY DUTY  
CONCRETE PAVEMENT DETAIL  
N.T.S.



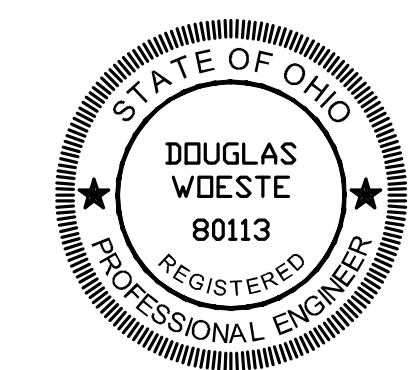
- NOTES:
1. REFER TO OSHA REQUIREMENTS FOR MAXIMUM ALLOWABLE TRENCH SLOPES.
  2. THIS PORTION OF THE PIPE EMBEDMENT ZONE MUST BE RECOMPACTED TO PROPER DENSITIES AFTER MOVING SUPPORT SYSTEM FORWARD.
  3. PROVIDE FILTER FABRIC WHEN VERY FINE OR UNSTABLE MATERIAL IS ENCOUNTERED.
  4. APPLY ITEM 407 TACK COAT TO VERTICAL FACE OF SAWCUT PAVEMENT.

UTILITY CONDUIT  
OPEN CUT DETAIL  
N.T.S.



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CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT  
STATION 16**

ISSUE		
NO.	DATE	DESCRIPTION
07/17/25	07/25/25	QC SUBMITTAL
08/01/25	08/01/25	100% QC SUBMITTAL FOR CONSTRUCTION

DATE 08/01/25  
JOB NO. 4284.01  
DRAWN MK  
CHECKED DW

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TITLE  
UTILITY PLAN

SHEET NO.  
**C100**



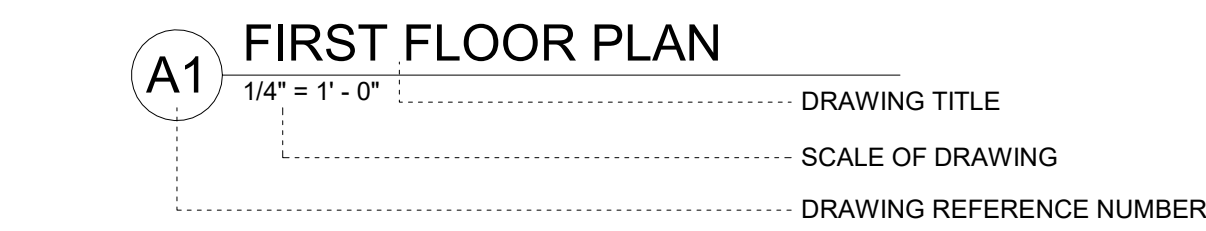
## ABBREVIATIONS

SYMBOL		G	
@ & O & E & R	AT AND ANGLE DIAMETER CENTER LINE PLATE	GA GALV GC GEN GL GND GYP GWB GWT	GAUGE GALVANIZED GENERAL CONTRACTOR GRADE OR GRADING GENERAL GLASS OR GLAZING GROUND GYPSUM GYPSUM BOARD GLAZED WALL TILE
ABV A/C AFF AHU AL ALT ANOD ANCH APPROX ARCH ATTEN AUTO AVG	ABOVE AIR CONDITIONING ABOVE FINISHED FLOOR AIR HANDLER UNIT ALUMINUM ALTERNATE ANODIZED ANCHOR APPROXIMATELY ARCHITECT OR ARCHITECTURAL ATTENUATED AUTOMATIC AVERAGE	HB HDW HM HORIZ HT HWAC HWD	HOSE BIBB HARDWARE HOLLOW METAL HORIZONTAL HEIGHT HEATING, VENTILATION & AIR CONDITIONING HARDWARE
BLDG BLK BLKG BOT BRNG BSMT	BUILDING BLOCK BLOCKING BOTTOM BEARING BASEMENT	ID IN INCL INT INV	INSIDE DIAMETER INCH INCLUDE (D) (ING) INTERIOR INVERT
CAB CB C/C CF CFCI CFOI CG CJ CLG CL CLR CMU CO COL CONC CONST CONT CPU CY	CABINET CATCH BASIN CENTER TO CENTER CUBIC FOOT CONTRACTOR FURNISH, CONTRACTOR INSTALL CONTRACTOR FURNISH, OWNER INSTALL CORNER GUARD CONTROL JOINT CEILING CLOSET CLEAR CONCRETE MASONRY UNIT CLEAN OUT COLUMN CONCRETE CONSTRUCTION CONTINUOUS OR CONTINUE CENTRAL PROCESSING UNIT (COMPUTER) CUBIC YARD	JB JC L LAV LBS LH LLH LLV LTL LVR	JUNCTION BOX JANITOR CLOSET LONG LAVATORY POUNDS LEFT HAND LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LINTEL LOUVER
DBL DEMO DF DIA DIM DISP DIV DS DWG DTL	DOUBLE DEMOLISH, DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DIVISION DOWNSPOUT DRAWING DETAIL	M MAS MAT MAX MECH MFR MH MIL MM MIN MISC MO MTD MTL	MEN OR METER MASONRY MATERIAL MAXIMUM MECHANICAL CONTRACTOR MECHANICAL MANUFACTURER MOUNTING HEIGHT, MANHOLE THOUSANDTHS OF AN INCH MILLIMETER MINIMUM MISCELLANEOUS MASONRY OPENING MOUNTED METAL
EA EC EIFS EJ ELEC ELEV EMERG EQ EQUIP EWC EXP EXT	EACH ELECTRICAL CONTRACTOR EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELECTRIC OR ELECTRICAL ELEVATION OR ELEVATOR EMERGENCY EQUAL EQUIPMENT ELECTRIC WATER COOLER EXISTING OR EXISTING EXPANSION EXTERIOR	N NC NIC NO NOM NRC NTS	NORTH OR NITROGEN NURSE CALL NOT IN CONTRACT NUMBER OR NITROUS OXIDE NOMINAL NOISE REDUCTION COEFFICIENT NOT TO SCALE
FD FE FEC FF FIN FLR FND FRT FT FTG FUR FV FOW FS	FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FINISH OR FINISHED FLOOR FOUNDATION FIRE RETARDANT TREATED WOOD FOOT OR FEET OR FULLY TEMPERED FOOTING FURRING FIELD VERIFY FACE OF WALL FILLER STRIP	OD OFCI OFOI OFVI OH OHD OPNG OPP O <sub>2</sub>	OUTSIDE DIAMETER OWNER FURNISH, CONTRACTOR INSTALL OWNER FURNISH, OWNER INSTALL OWNER FURNISH, VENDOR INSTALL OVERHEAD OVERHEAD DOOR OPENING OPPOSITE OXYGEN
		PAR PC PCF PL PLBG PLWD PME PR PSF PSI PVC	PARALLEL PLUMBING CONTRACTOR POUNDS PER CUBIC FOOT PLATE OR PROPERTY LINE PLUMBING PLYWOOD PLUMBING, MECHANICAL & ELECTRICAL PANEL PAIR POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POLYVINYL CHLORIDE

QTY	QUANTITY	R	
R RA RB RECEPT REF REINF REQD RET REV RH RM RO ROW	RADIUS RETURN AIR RUBBER BASE ROOF DRAIN RECEPTACLE REFERENCE REINFORCE REQUIRED RETURN REVISION RIGHT HAND ROOM ROUGH OPENING RIGHT OF WAY	S SAN SB SCHED SEAL SECT SF SG SH SHT SHTG SIM SPEC SPK SQ ST STC STD STL STR SUSP SV SYS	SOUTH SANITARY SINK BASE SCHEDULE SEALANT SECTION SQUARE FEET SAFETY GLASS SPRINKLER HEAD OR SHOWER HEAD SHEET SHEATHING SIMILAR SPECIFICATION(S) SPEAKER SQUARE STREET SOUND TRANSMISSION CLASSIFICATION STANDARD STEEL STRUCTURAL SUSPENDED SHEET VINYL SYSTEM
T & G TB T&B TEL TOC TOS TOM TOW TRANS TV TYP	TONGUE & GROOVE TOWEL BAR TOP AND BOTTOM TELEPHONE TOP OF CONCRETE TOP OF STEEL TOP OF MASONRY TOP OF WALL TRANSFORMER TELEVISION TYPICAL	UC UNL UNO	UNDER CABINET OR COUNTER UNIT HEATER UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE
V VB VCT VERT VS	VACUUM VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VACUUM SLIDE		
W W/ W/O WCT WD WIN WP WPT WT WWF	WIDE OR WEST OR WOMEN WITH WITHOUT WATER CLOSET OR WALL CABINET WOOD WINDOW WORK POINT WOOD PRESERVATIVE TREATMENT WEIGHT WELDED WIRE FABRIC		

## REFERENCE SYMBOLS

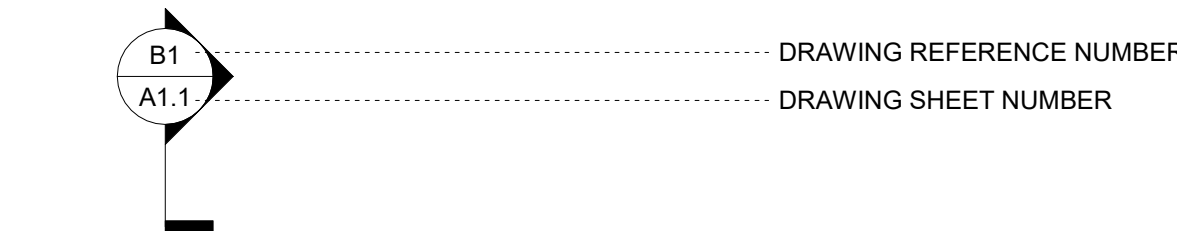
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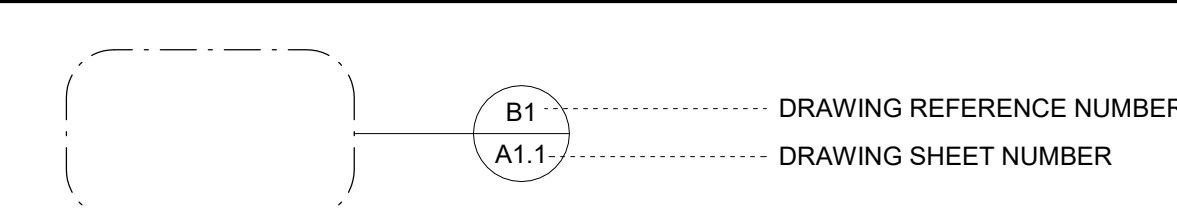
### INTERIOR ELEVATIONS



### BUILDING/DETAIL SECTION



### ENLARGED DETAIL



### EXTERIOR ELEVATIONS



### MATCH LINE

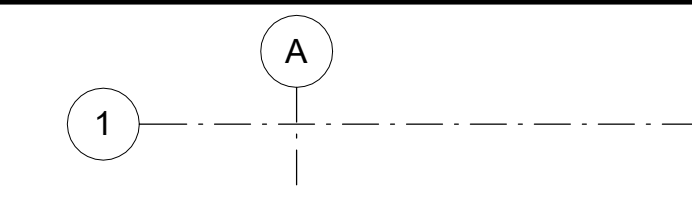


## MATERIAL SYMBOLS IN SECTION

	EARTH		LOOSE OR BATT INSULATION		BRICK
	GRANULAR FILL		RIGID INSULATION		SOLID SURFACE
	CONCRETE		STEEL		GYPSUM / PLASTER
	CMU BLOCK		PLYWOOD		WOOD, FINISHED
	BLOCKING / SHIM				WOOD, DIMENSIONAL

## DRAWING SYMBOLS

### COLUMN CENTER LINES

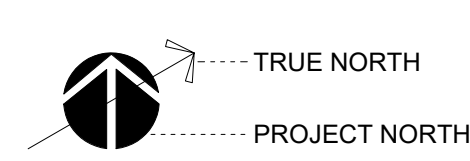


### ROOM SYMBOL

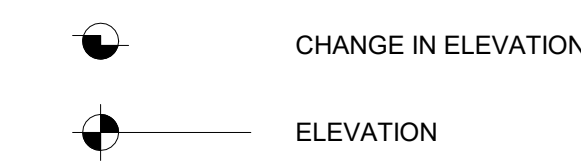


### PLAN SYMBOLS

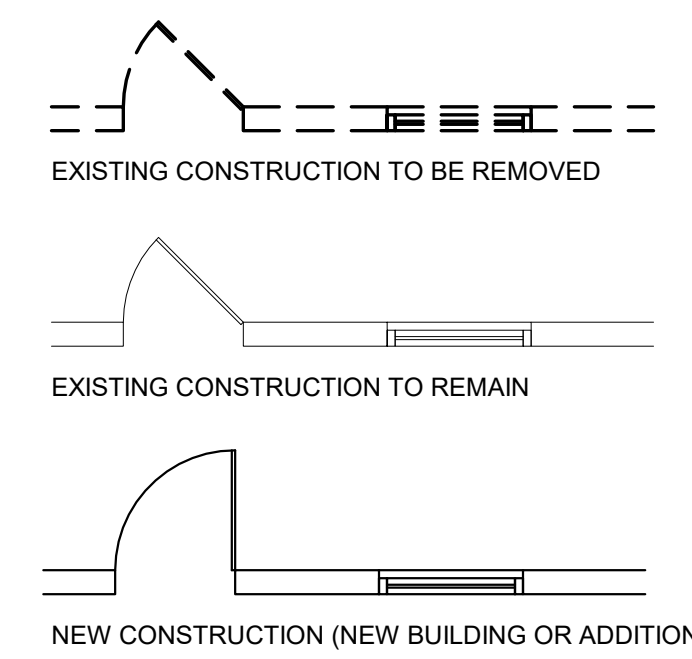
	CONSTRUCTION NOTES
	DEMOLITION NOTES
	ACCESSORIES (LETTERS)
	DOOR NUMBER SYMBOL
	WINDOW SYMBOL
	WALL TYPE
	REVISION / CHANGE
	CORNER GUARD
	END WALL PROTECTOR
	FIRE EXTINGUISHER CABINET



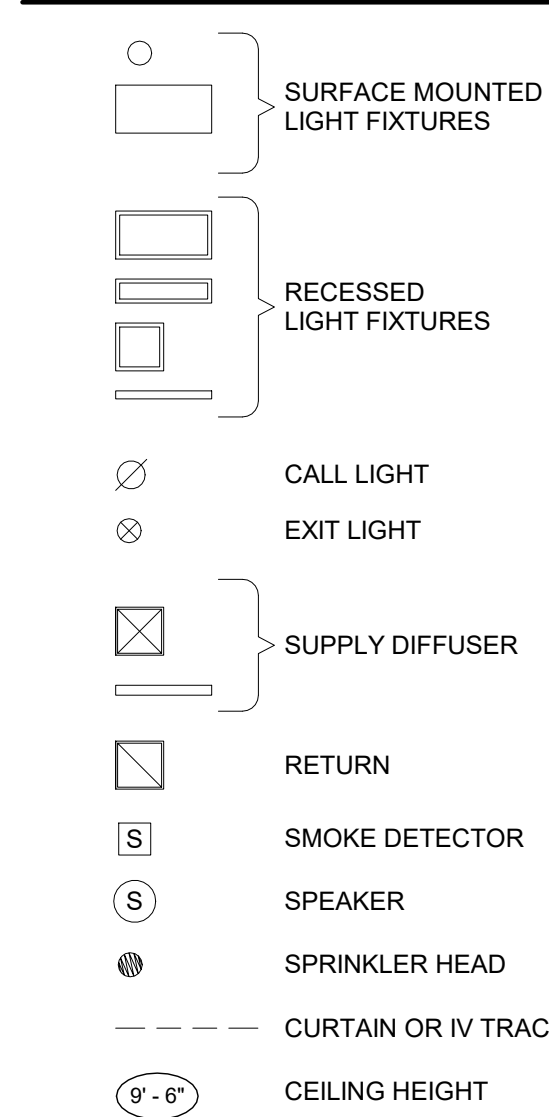
### ELEVATION SYMBOLS



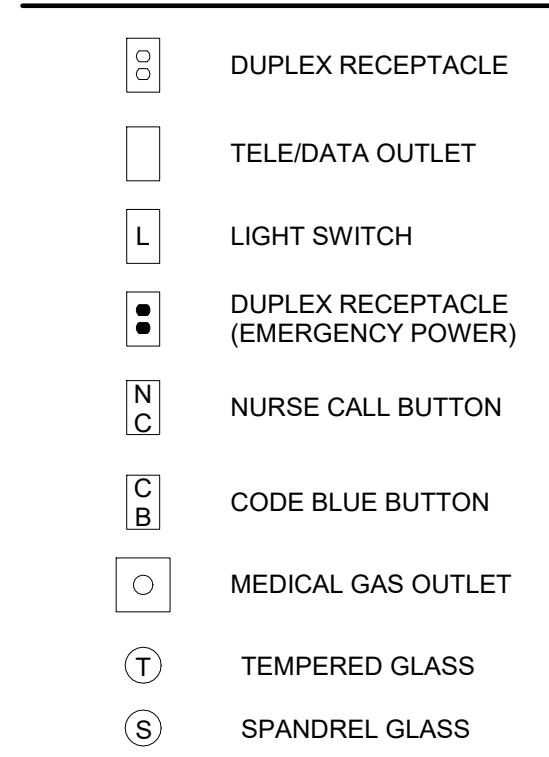
### TYPICAL WALL CONVENTIONS



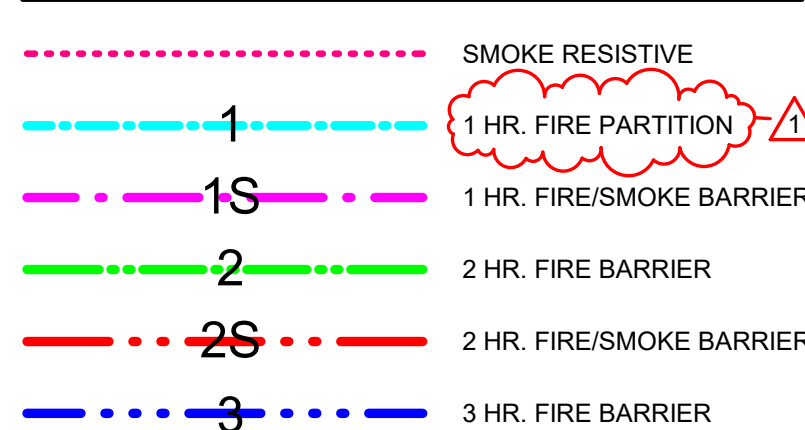
### REFLECTED CEILING SYMBOLS



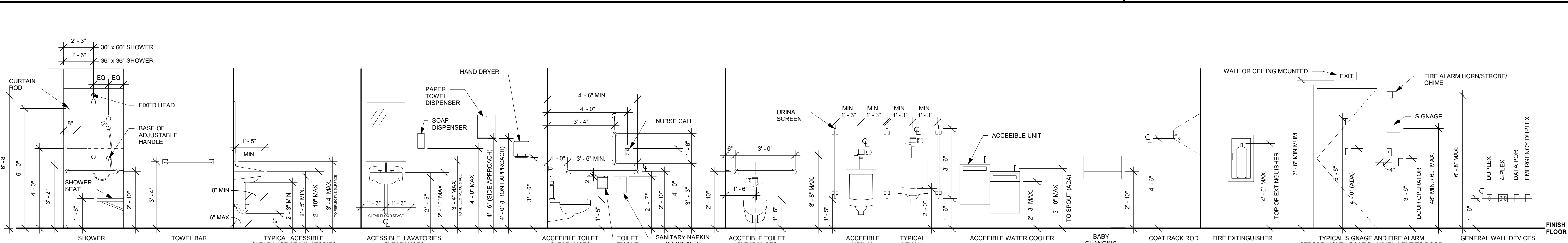
### INTERIOR ELEVATION SYMBOLS



### FIRE BARRIER LEGEND



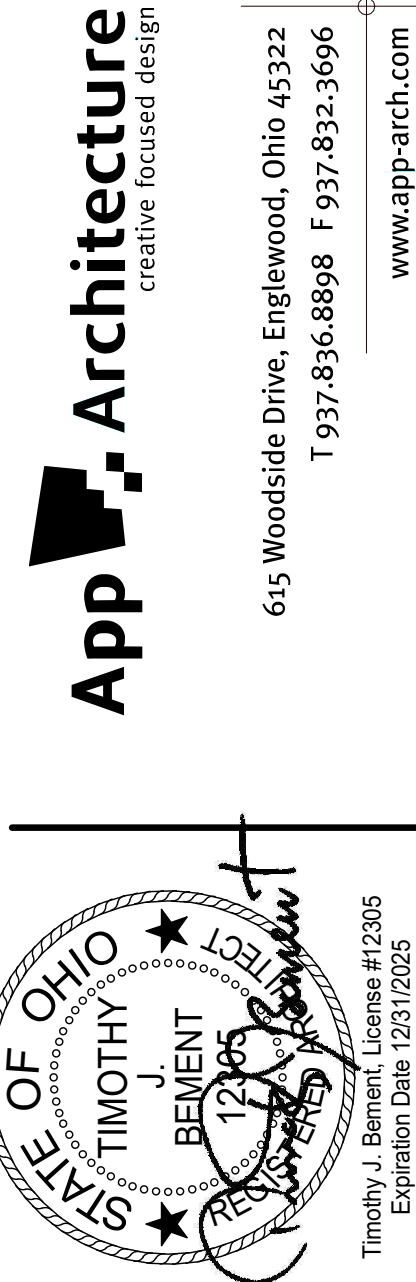
ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.  
ADDITIONAL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON SUBSEQUENT SHEETS.



## MOUNTING & CLEARANCE STANDARDS N.T.S.

(FOLLOW THESE UNLESS NOTED OTHERWISE)

ACCESSIBLE FIXTURES, ACCESSORIES & DIMENSIONS ARE BASED ON: ICC 117.1 - 2017 FOR NEW CONSTRUCTION AND ICC 117.1 - 2009 FOR EXISTING BUILDINGS.



CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT**  
**STATION 16**  
4111 Kings Highway, Dayton, Ohio, 45406

NO.	DATE	DESCRIPTION
1	10/08/2025	ADDENDUM 2

DATE	08/01/25
JOB NO.	4284.01
DRAWN	AEE
CHECKED	CMS/TJB

TITLE  
ABBREVIATIONS AND SYMBOLS

SHEET NO.  
**A0.01**



11/10/2025 1:06:59 PM

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App Architecture

creative focused design



CITY OF DAYTON  
DAYTON FIRE DEPARTMENT  
STATION 16

4111 Kings Highway, Dayton, Ohio, 45406

ISSUE		
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION

DATE	08/01/25
JOB NO.	4284.01
DRAWN	AEE
CHECKED	CMS/TJB

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TITLE  
FINISH SCHEDULES

SHEET NO.

A0.02

ROOM FINISH SCHEDULE

ROOM No.	ROOM NAME	FLOOR	BASE	WAINSCOT		WALLS				CEILING	REMARKS
				MAT.	HT.	N	S	E	W	MAT.	
001	STORAGE	EX	EX			EX	EX	EX	EX	EX	
002	STORAGE	EX	EX			EX	EX	EX	EX	EX	
003	STORAGE	EX	EX			EX	EX	EX	EX	EX	
004	FITNESS EQUIPMENT	RTF-1	RB-1			EP-1	EP-1	EP-1	EP-3	EXPS-1	
005	DECON	EX	EX			EP-1	EP-1	EP-1	EP-1	EXPS-1	
006	MECHANICAL	EX	EX			EX	EX	EX	EX	EX	
007	TOG STORAGE	EX	EX			EP-1	EP-1	EP-1	EP-1	EXPS-1	
101	REPORT	LVT-1/LVT-2	RB-2			P-3	EP-1	EP-1	EP-1	APC-1	4
102	TLT	PT-1	PTWB-1			EP-1	EP-1	PWT-1/PWT-2	EP-1	APC-1	6
107	DAYROOM	LVT-1/LVT-2/LVT-3	RB-2			EP-3	EP-1	EP-1	EP-1	APC-1	1,2,3
108	KITCHEN	LVT-1/LVT-2	RB-1/RB-2			EP-1	EP-1	EP-1	EP-1	APC-1	1,2,4,5,7
109	DINING	LVT-1/LVT-2/LVT-3	RB-2			EP-1	EP-1	EP-1	EP-1	APC-1	1,2,3
110	TLT/SHWR	PT-1	PTWB-1			EP-2	EP-2	PWT-1/PWT-2	EP-2	APC-1	6
111	CREW LAUNDRY	LVT-1/LVT-2	RB-2			EP-1	EP-1	EP-1	EP-1	APC-1	
112	TLT/SHWR	PT-1	RB-1			EP-2	EP-2	EP-2	PWT-1/PWT-2	APC-1	6
113	TLT/SHWR	PT-1	RB-1			EP-2	EP-2	PWT-1/PWT-2	EP-2	APC-1	6
114	DORM	CPT-1	RB-1	VWP-1	52"	VWP-1 / P-2	P-1	VWP-1 / P-2	P-1	APC-1	8
115	DORM	CPT-1	RB-1	VWP-1	52"	VWP-1 / P-2	P-1	VWP-1 / P-2	P-1	APC-1	8
116	ADA DORM	CPT-1	RB-1	VWP-1	52"	VWP-1 / P-2	P-1	VWP-1 / P-2	P-1	APC-1	8
117	DORM	CPT-1	RB-1	VWP-1	52"	VWP-1 / P-2	P-1	P-1	VWP-1 / P-2	APC-1	8
118	DORM	CPT-1	RB-1	VWP-1	52"	VWP-1 / P-2	P-1	P-1	VWP-1 / P-2	APC-1	8
119	DORM	CPT-1	RB-1	VWP-1	52"	VWP-1 / P-2	P-1	P-1	VWP-1 / P-2	APC-1	8
121	JAN.	LVT-1/LVT-2	RB-2			EP-1	EP-1	EP-1	EP-1	APC-1	4
122	DORM/ OFFICE	CPT-1	RB-2			EP-2	EP-1	EP-1	EP-2	APC-1	1,2
123	TLT/SHWR	PT-1	PTWB-1			EP-2	EP-2	EP-2	EP-2	APC-1	1,2,5
124	STAIRS	EX	-			EX	EX	EX	EX	EX	
125	BAY 1	EX	-			EX	EX	EP-5	EX	EX	9
126	BAY 2	EX	-			EX	EX	EX	EX	EX	
C-01	ENTRY	MAT-1	RB-2			EP-1	EP-1	EP-1	EP-1	APC-1	1,2
C-02	CORRIDOR	LVT-1/LVT-2	RB-2			EP-1	EP-1	EP-1	EP-1	APC-1	1,2,4
C-03	LOCKERS	LVT-1 / LVT-2	RB-1			P-1	P-1	P-1	P-1	APC-1	4
C-04	CORRIDOR	CPT-1 / MAT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
C-05	CORRIDOR	MAT-1	RB-2			EP-1	EP-1	P-1	P-1	APC-1	1,2

ROOM FINISH SCHEDULE REMARKS

No.	REMARK
1	ONLY PAINT UPPER PORTION OF CMU BLOCK WALL. (NON GLAZED BLOCK)
2	CLEAN GLAZED CMU BLOCK
3	40% LVT-1 / 40% LVT-2 / 20% LVT-3 RANDOM MIX
4	50% LVT-1 / 50% LVT-2 RANDOM MIX
5	RB-2 BASE ON WALLS
6	CAP PTWB-1 WITH SCHLUTER STRIP ON WALLS NOT TO RECEICE WALL TILE.
7	RB-1 BASE ON NEW CASEWORK
8	VYNYL WALL PROTECTION THIS AREA. PANELS TO BE BUTT SEAMED WITH COLOR MATCHED CAULK AND CAPPED AND EDGED WITH INPRO COLOR MATCHED CAP STRIP.
9	PAINT ONLY NEW WORK.

MATERIAL LEGEND

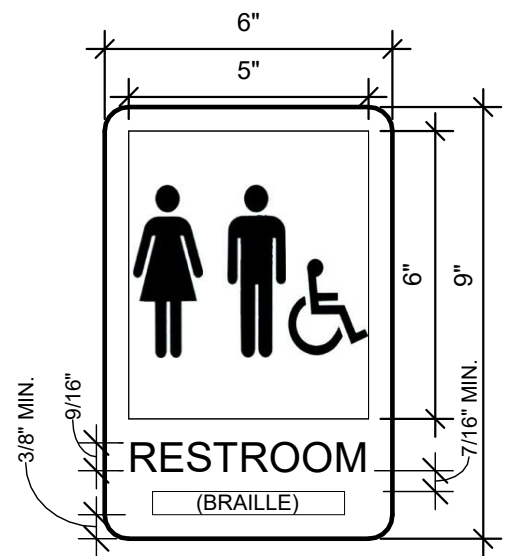
ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	CONTACT INFO	COLOR	FLAME / SMOKE	REMARKS
BASE							
PTWB-1	PORCELAIN TILE WALL BASE	DALTILE	CALGARY	VICKI MARCH, 513.5541330	FAWN CG41 MATTE		CUT 12" X 24" FIELD TILE DOWN TO A 6" X 24" TILE.
RB-1	RUBBER BASE 4"	JOHNSONITE / TARKETT	TSB 469 4 X 120 1/8 TOE	TRISHA ROE-KEEL, 513.207.5309	TAB WELSH CASTLE CB		
RB-2	RUBBER BASE 6"	JOHNSONITE / TARKETT	TSB 469 4 X 120 1/8 TOE	TRISHA ROE-KEEL, 513.207.5309	TAB WELSH CASTLE CB		
CABINETS							
PL-1	PLASTIC LAMINATE	FORMICA	9283	JENNIFER SULLIVAN, 614.264.7768	WALNUT RIFTWOOD		CASEWORK
PL-2	PLASTIC LAMINATE	WILSONART	4942-38	KATIE MASON, 614.971.9636	CRISP LINEN		WORK SURFACES
SSM-1	SOLID SURFACE	LG HAUSYS HI-MAC	G118	MICHELLE ALLEN, 513.214.9939	MOON HAZE		COUNTERTOPS
SSM-2	SOLID SURFACE	INPRO	CUSTOM SHOWER BASE	KRISTI ASHFORD, 513.646.2163	P9009 BONE		SHOWER BASE
SSM-3	SOLID SURFACE	INPRO	PRISM SOLID SURFACE SHOWER WALLS	KRISTI ASHFORD, 513.646.2163	ANGORA P9041		SHOWER WALLS
SSM-4	SOLID SURFACE	LG HAUSYS HI-MAC	HM-BLS-1612	MICHELLE ALLEN, 513.214.9939	ARTIC WHITE		SINK BOWLS
CEILING							
APC-1	ACOUSTIC PANEL CEILING	ARMSTRONG	686 ANGLED TEGULAR	JEN McCoy 513.919.7429	WHITE	CLASS A	
EX	EXISTING						
EXPS-1	EXPOSED STRUCTURE						PAINT P-1 U.N.O.
GYP / P	GYP SUM BOARD PAINTED						PAINT P-1 U.N.O.
FLOOR							
CPT-1	CARPET TILE	PATCRAFT	INFRASTRUCTURE	KATIE FINGERS, 513.805.107	ASPHALT 00590, SCAFFOLD 10519	CLASS 1 < 450'	ASHLAR INSTALL
EX	EXISTING						
LVT-1	LUXURY VINYL TILE	INTERFACE	BRUSHED LINES	MAGGIE HERMS, 513.500.9523	MOUSSE A01611	CLASS 1 < 450'	
LVT-2	LUXURY VINYL TILE	INTERFACE	BRUSHED LINES	MAGGIE HERMS, 513.500.9523	SOFT SHADOW A01612	CLASS 1 < 450'	
LVT-3	LUXURY VINYL TILE	INTERFACE	BRUSHED LINES	MAGGIE HERMS, 513.500.9523	ROUGE A01616	CLASS 1 < 450'	
MAT-1	WALK OFF MAT	PATCRAFT	WALK-RIGHT IN II I0304	MAGGIE HERMS, 513.500.9523	EBONY 00595	CLASS 1 < 450'	QUARTER TURN INSTALL
PT-1	PORCELAIN TILE	DALTILE	CALGARY	VICKI MARCH, 513.5541330	FAWN CG41		12" X 24" FIELD TILE
RTF-1	RUBBER TILE FLOOR	ROPPE	RECOIL		#186 RED	CLASS 1 < 450'	FITNESS ROOM
SPECIALTY							
CG-1	CORNER GUARD	INPRO CORP.	REFER TO B4/A0.06 FOR DETAILS	LESLIE FREDRIC, 513.646.2163	STAINLESS STEEL		4" - 0" INSTALL AT TOP OF BASE
WALL							
EP-1	EPOXY PAINT	SHERWIN WILLIAMS	SW 7008	ANGIE JULIAN, 317.714.5610	ALABASTER		FIELD PAINT - CMU WALLS
EP-2	EPOXY PAINT	SHERWIN WILLIAMS	SW 7642	ANGIE JULIAN, 317.714.5610	PAVESTONE		ACCENT COLOR
EP-3	EPOXY PAINT	SHERWIN WILLIAMS	SW 6321	ANGIE JULIAN, 317.714.5610	RED BAY		ACCENT COLOR
EP-4	EPOXY PAINT	SHERWIN WILLIAMS	SW 7025	ANGIE JULIAN, 317.714.5610	BACKDROP		HW DOORS AND FRAMES
EP-5	EPOXY PAINT	SHERWIN WILLIAMS	TBD	ANGIE JULIAN, 317.714.5610	MATCH EXISTING PAINT IN BAYS		CMU INFILL
EX	EXISTING						
P-1	PAINT	SHERWIN WILLIAMS	SW 7008	ANGIE JULIAN, 317.714.5610	ALABASTER		FIELD PAINT
P-2	PAINT	SHERWIN WILLIAMS	SW 7642	ANGIE JULIAN, 317.714.5610	PAVESTONE		ACCENT COLOR
P-3	PAINT	SHERWIN WILLIAMS	SW 6321	ANGIE JULIAN, 317.714.5610	RED BAY		ACCENT COLOR
PWT-1	PORCELAIN WALL TILE	DALTILE	MEDIAN	VICKI MARCH, 513.5541330	WHITE MN40 MATTE		12" X 24" FIELD TILE
PWT-2	PORCELAIN WALL TILE	DALTILE	BEE HIVE MEDLEY	VICKI MARCH, 513.5541330	BLACK P011 MATTE		8 1/2" x 10" HEXAGON
VWP-1	VINYL WALL PROTECTION	INPRO	LEGACY 2402	LESLIE FREDRICK, 513.646.2163	PEBBLE GRAY 0387		

GENERAL NOTES

A. ALL PRODUCTS, AND OVER STOCK, SHALL COME FROM THE SAME DYE-LOT / PRODUCTION RUN TO ENSURE UNIFORMITY.

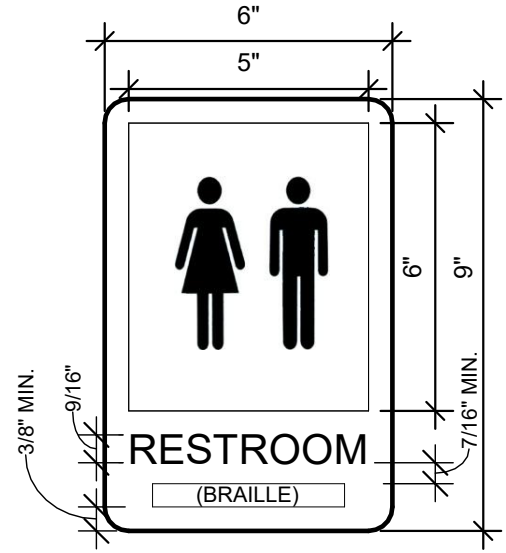


## SIGNAGE LEGEND



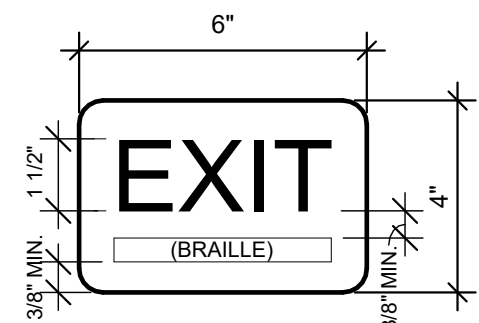
UNISEX RESTROOM - TYPE 1

3" = 1'-0"



UNISEX RESTROOM - TYPE 2

3" = 1'-0"



EXIT SIGN - TYPE 3

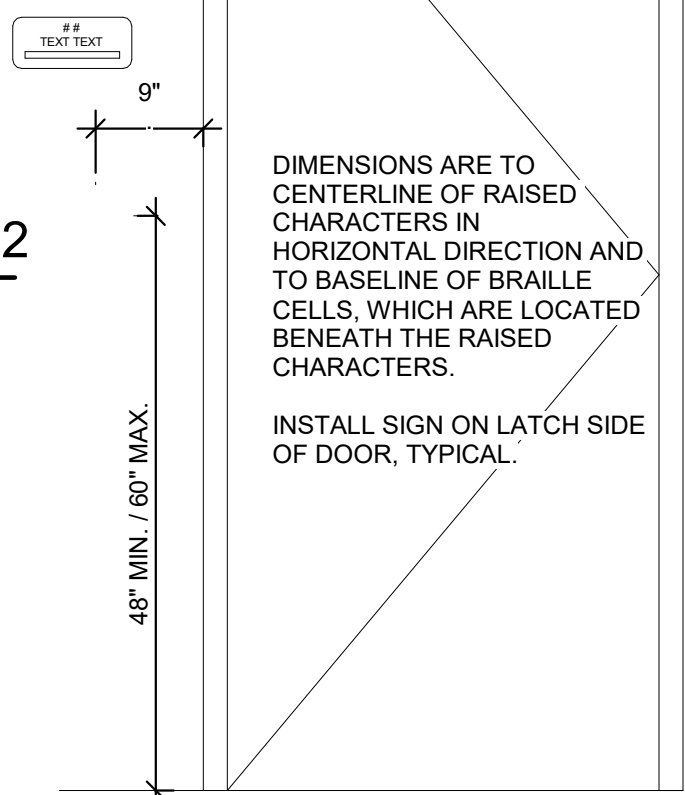
3" = 1'-0"

## SIGN NOTES

- A. ALL SIGNS SHALL HAVE BRAILLE LETTERING BENEATH TEXT, TYPICAL.
- B. SIGNS MOUNTED ON GLASS AT DOOR NEED TO BE MOUNTED WITH ADHESIVE AND MATCHING BACKER PLATE FOR OTHER SIDE OF GLASS.
- C. TEXT AND GRAPHICS TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH BACKGROUND. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- D. BACKGROUND TO BE NON-GLARE COLOR IN HIGH CONTRAST WITH TEXT AND GRAPHICS. SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.
- E. 1/2" RADIUS CORNERS.
- F. ALL TEXT ON SIGNS LOCATED NEXT TO INTERIOR DOORS WILL BE 1/32" RAISED CHARACTERS, UPPERCASE, AND VIEWABLE AT LESS THAN 6 FEET.

## SIGNAGE LOCATION

3/4" = 1'-0"

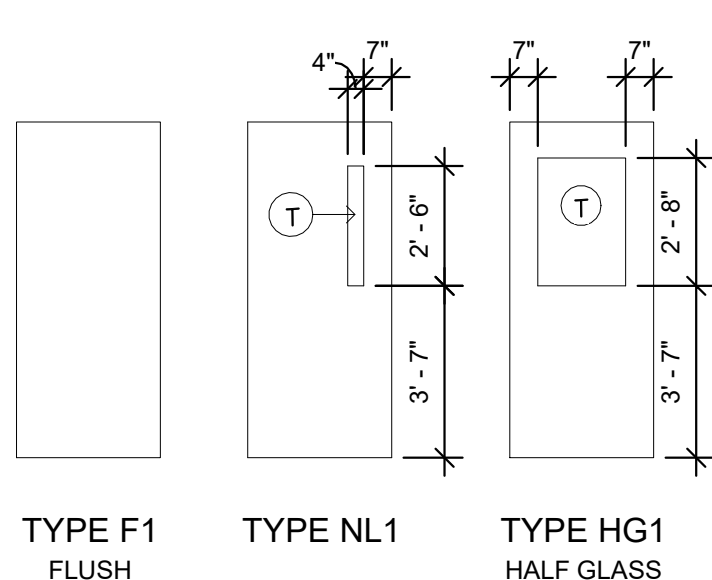


## DOOR AND FRAME SCHEDULE

DOOR NO.	ROOM NAME	HDW. SET	HDW. FUNCTION	DOOR								FRAME							FIRE RTG.	REMARKS
				SIZE				TYPE	FIN.	U/C	MAT.	TYPE	FIN.	DETAILS						
				W	H	T	MAT.							HEAD	JAMB	SILL				
004A	FITNESS EQUIPMENT	19A	PUSH / PULL	3'-0"	7'-0"	1 3/4"	HM	HG1	EP-4	-	HM	1	EP-4	E3/A0.05 SIM	E5/A0.05 SIM	B5/A0.05	-	-		
004B	FITNESS EQUIPMENT	-	-	6'-0"	7'-0"	1 3/4"	EX	EX	EP-4	-	HM	1	EP-4	-	-	-	-	7		
005	DECON	19A	PUSH / PULL	3'-0"	6'-8"	1 3/4"	WD	EX	EP-4	-	WD	EX	EP-4	-	-	-	-	1, 8		
006	MECHANICAL	7A	PASSAGE	3'-0"	6'-8"	1 3/4"	HM	F1	EP-4	-	HM	1	EP-4	E3/A0.05 SIM	E5/A0.05 SIM	-	90 MIN.	14		
007	TOG STORAGE	20	PASSAGE	3'-0"	6'-8"	1 3/4"	HM	F1	EP-4	-	HM	EX	EP-4	E3/A0.05 SIM	E5/A0.05 SIM	-	90 MIN.	14		
101	REPORT	-	-	2'-8"	7'-0"	1 3/4"	-	-	-	-	HM	EX	EP-4	-	-	-	-	-		
102	TLT	13	PRIVACY	2'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	EX	EP-4	-	-	-	-	3, 5		
107	DAYROOM	-	-	2'-8"	7'-0"	1 3/4"	-	-	-	-	HM	EX	EP-4	-	-	-	-	-		
108	KITCHEN	22	PUSH / PULL	2'-8"	7'-0"	1 3/4"	WD	NL1	STAIN	-	HM	EX	EP-4	-	-	-	-	10		
109	DINING	23	STOREROOM	2'-8"	7'-0"	1 3/4"	HM	EX	EP-4	-	HM	EX	EP-4	-	-	-	-	2, 6, 11		
110	TLT/SHWR	13	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	4		
111	CREW LAUNDRY	17	PASSAGE	3'-0"	7'-0"	1 3/4"	WD	NL1	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	-		
112	TLT/SHWR	13	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	4		
113	TLT/SHWR	13	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	5		
114	DORM	18	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	166	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	45 MIN.	-		
115	DORM	18	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	166	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	45 MIN.	-		
116	ADA DORM	18	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	166	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	45 MIN.	-		
117	DORM	18	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	166	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	45 MIN.	-		
118	DORM	18	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	166	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	45 MIN.	-		
119	DORM	18	PRIVACY	3'-0"	7'-0"	1 3/4"	WD	166	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	45 MIN.	-		
121	JAN.	17	PASSAGE	2'-0"	7'-0"	1 3/4"	WD	F1	STAIN	3/4"	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	-		
122	DORM/ OFFICE	18	PRIVACY	2'-8"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	EX	EP-4	-	-	-	-	3		
123	TLT/SHWR	14	PRIVACY	2'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	EX	EP-4	-	-	-	-	3, 5		
124	STAIRS	15	PUSH / PULL	2'-8"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	EX	EP-4	-	-	-	-	1		
125	BAY 1	-	-	2'-8"	7'-0"	1 3/4"	HM	EX	-	-	HM	EX	-	-	-	-	-	9, 12		
125C	BAY 1	-	-	5'-0"	7'-0"	1 3/4"	HM	EX	-	-	HM	EX	EP-4	-	-	-	-	9, 12		
C-01A	ENTRY	-	-	2'-8"	7'-0"	1 3/4"	HM	HG1	EP-4	-	HM	EX	EP-4	-	-	-	-	6, 11, 13		
C-01B	ENTRY	17A	PASSAGE	3'-0"	7'-0"	1 3/4"	WD	NL1	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	-		
C-02A	CORRIDOR	16	PUSH / PULL	4'-7"	7'-0"	2"	WD	EX	STAIN	-	HM	EX	EP-4	-	-	-	-	1		
C-02B	CORRIDOR	19	PUSH / PULL	3'-0"	7'-0"	1 3/4"	HM	NL1	EP-4	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	-		
C-03	LOCKERS	19	PUSH / PULL	3'-0"	7'-0"	1 3/4"	WD	F1	STAIN	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	-	-		
C-04A	CORRIDOR	20	PASSAGE	3'-0"	7'-0"	1 3/4"	WD	167	STAIN	-	HM	1	EP-4	C1/A0.05	C3/A0.05	B5/A0.05	90 MIN.	-		
C-04B	CORRIDOR	21	PASSAGE	3'-0"	7'-0"	1 3/4"	HM	NL1	EP-4	-	HM	1	EP-4	B1/A0.05	B3/A0.05	B5/A0.05	90 MIN.	-		
C-04C	CORRIDOR	21A	PASSAGE	3'-0"	7'-0"	1 3/4"	HM	NL1	EP-4	-	HM	2	EP-4	E1/A0.05	F1/A0.05	B5/A0.05	90 MIN.	-		

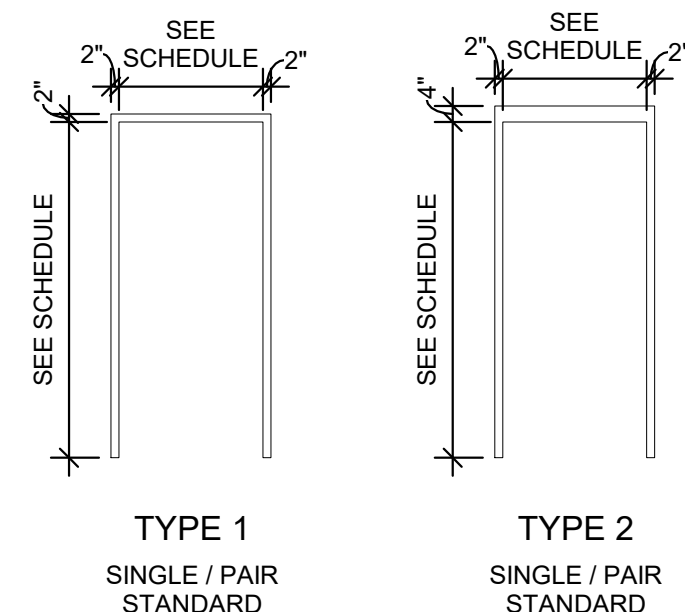
## DOOR REMARKS

No.	REMARK
1	EXISTING WOOD DOOR. REMOVE DOOR. REFINISH TO MATCH NEW DOORS, REHANG DOOR WITH NEW HARDWARE.
2	NEW INTERIOR SCREEN DOOR TO MATCH EXISTING.
3	PROVIDE NEW WOOD DOOR SLAB AND HARDWARE. EXISTING DOOR FRAME TO REMAIN.
4	SIGN TYPE 1 AT THIS DOOR.
5	SIGN TYPE 2 AT THIS DOOR.
6	SIGN TYPE 3 AT THIS DOOR.
7	EXISTING DOOR TO REMAIN. PAINT PER SCHEDULE. NO OTHER NEW WORK THIS DOOR.
8	ADD COVERPLATES ON DOOR AND FRAME TO COVER WHERE OLD LATCHES WERE PRIOR TO NEW WORK.
9	EXISTING DOOR FRAME TO REMAIN.
10	PROVIDE NEW WOOD DOOR SLAB TO MOUNT ON EXISTING DOUBLE-ACTION HARDWARE. EXISTING FRAME TO REMAIN.
11	EXISTING DOOR TO REMAIN. PREP AND PAINT ACCORDING TO SCHEDULE.
12	NO NEW WORK THIS DOOR.
13	REMOVE EXISTING BLINDS. APPLY WINDOW FILM TO HALF GLASS. BASIS OF DESIGN: DECORATIVEFILMS, ULTRAGREEN SX-1254-UG REEDED GLASS FILM.
14	FIELD VERIFY DOOR OPENING IN CONCRETE WALL PRIOR TO ORDERING NEW DOOR AND FRAME.
ALL DOORS IN THE BUILDING ARE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT TO OPERATE.	



T INDICATES TEMPERED SAFETY GLAZING

DOOR ELEVATIONS



T INDICATES TEMPERED SAFETY GLAZING

FRAME ELEVATIONS



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A

B

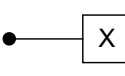
C

D

E

F

INTERIOR WALL TYPES SCHEDULE



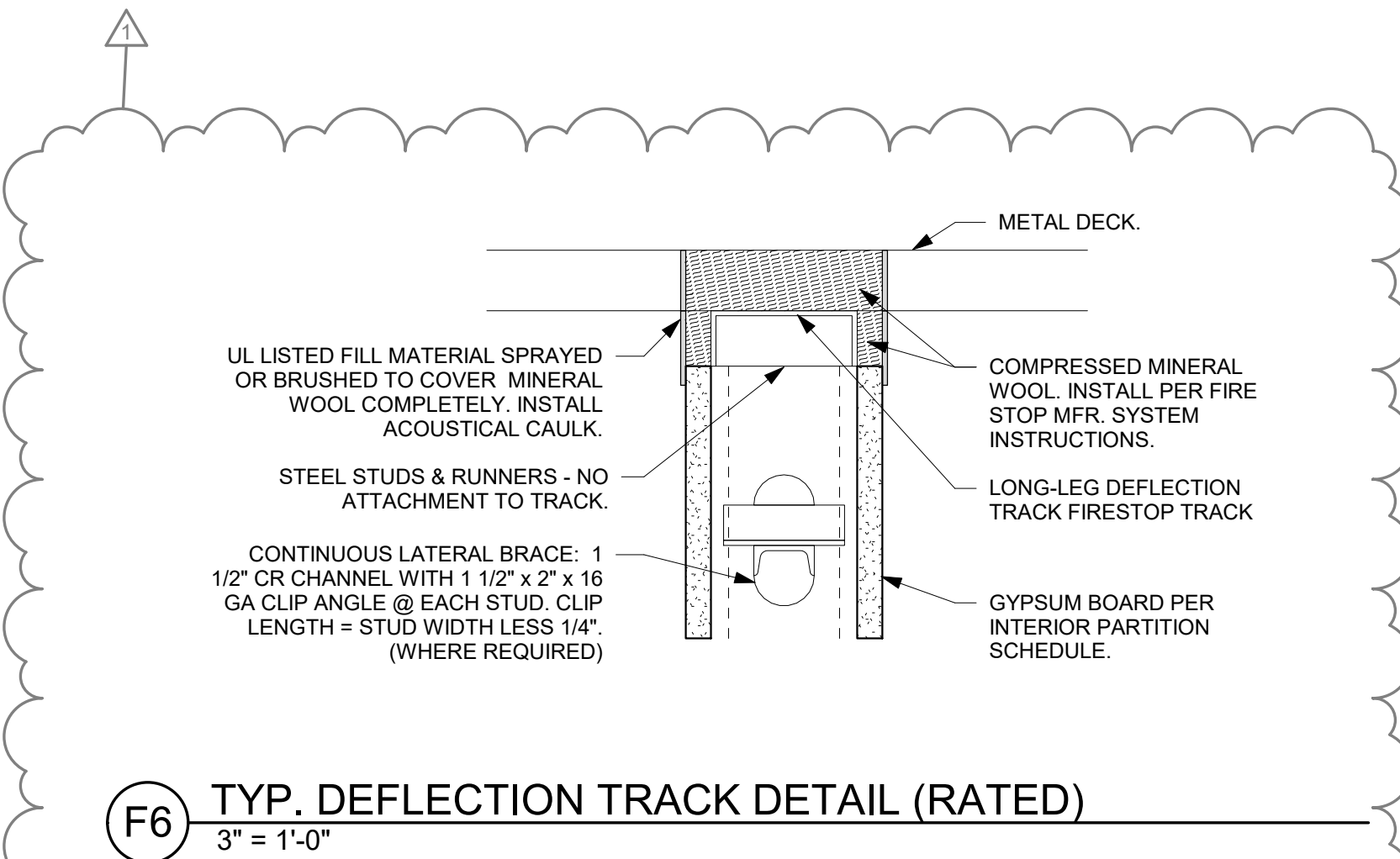
TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
A1	3 5/8"	- -	<p>DEFLECTION TRACK AT HEAD</p> <p>5/8" TYPE "X" GYPSUM BOARD</p> <p>3 5/8" STEEL STUDS @ 16" O.C.</p> <p>3 1/2" SOUND ATTENUATION</p> <p>5/8" TYPE "X" GYPSUM BOARD</p> <p>NOTES: 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF WALL TILE.</p>
A2	6"	- -	<p>DEFLECTION TRACK AT HEAD</p> <p>5/8" TYPE "X" GYPSUM BOARD</p> <p>6" STEEL STUDS @ 16" O.C.</p> <p>5 1/2" SOUND ATTENUATION</p> <p>5/8" TYPE "X" GYPSUM BOARD</p> <p>NOTES: 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF WALL TILE.</p>
B1	3 5/8"		<p>EXISTING WALL</p> <p>3 5/8" STEEL STUDS @ 16" O.C.</p> <p>3 1/2" SOUND ATTENUATION</p> <p>5/8" TYPE "X" GYPSUM BOARD</p>
B2	2 1/2"		<p>EXISTING WALL</p> <p>2 1/2" STEEL STUDS @ 16" O.C.</p> <p>2 1/2" SOUND ATTENUATION</p> <p>5/8" TYPE "X" GYPSUM BOARD</p>
C3	5/8"		<p>EXISTING WALL</p> <p>5/8" CEMENTITIOUS BACKER BOARD FULL HEIGHT OF WALL TILE</p>

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
F1	3 5/8"	1 HR. UL NO V438	<p>FIRESTOP DEFLECTION TRACK AT HEAD</p> <p>5/8" TYPE "X" GYPSUM BOARD</p> <p>3 5/8" STEEL STUDS @ 16" O.C.</p> <p>3 1/2" SOUND ATTENUATION</p> <p>5/8" TYPE "X" GYPSUM BOARD</p> <p>NOTES: FIRE CAULK PERIMETER AND PENETRATIONS.</p>
F2	3 5/8"	1 HR. UL NO V497	<p>FIRESTOP DEFLECTION TRACK AT HEAD</p> <p>EXISTING WALL</p> <p>2 1/2" STEEL STUDS @ 16" O.C.</p> <p>2 1/2" SOUND ATTENUATION</p> <p>5/8" TYPE "X" GYPSUM BOARD (X2)</p> <p>NOTES: FIRE CAULK PERIMETER AND PENETRATIONS.</p>

TYPE	BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES
F3	7 5/8"	2 HR. UL NO. U905 EQUIVALENT	<p>EXISTING 8" NOMINAL CMU</p> <p>NOTES: FIRE CAULK PERIMETER AND PENETRATIONS.</p>
F4	4"	2 HR. UL NO. G702 EQUIVALENT	<p>SPRAY-APPLIED FIRE RESISTIVE MATERIAL THICKNESS IN ACCORDANCE WITH G702 CHARTS.</p> <p>EXISTING LIGHTWEIGHT CONCRETE FLOOR SLAB ON LATH</p> <p>EXISTING STEEL JOISTS @ 24" O.C.</p> <p>NOTES: FIRE CAULK PERIMETER AND PENETRATIONS.</p>

GENERAL NOTES

- A. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS AND SHOWER AREAS. EXTEND MINIMUM 24" BEYOND PLUMBING FIXTURES. FIRE RATINGS MUST BE MAINTAINED ON RATED PARTITIONS WITH TYPE X MOISTURE/MOLD RESISTANT GYPSUM BOARD TO RETAIN COMPLIANCE WITH THE UL ASSEMBLY.
- B. PROVIDE & INSTALL DEFLECTION TRACK AT ALL INTERIOR WALLS THAT EXTEND TO DECK.
- C. UL TEST NUMBERS FOR INTERIOR PARTITIONS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED. MAINTAIN RATING AND ADVISE IF WALL THICKNESS WILL CHANGE.
- D. DRYWALL CONTRACTOR TO PAINT WALL RATINGS LABELS AT MAXIMUM 12 FEET O.C. ON ALL FIRE RATED PARTITIONS. LABEL TO BE PAINTED ABOVE CEILING WITH A STENCIL MIN. OF 4 INCHES IN HEIGHT, BLACK COLOR.
- E. FIRE RATED WALLS AND SMOKE PARTITIONS ARE TO BE CONSTRUCTED TIGHT TO DECK, PIPING AND OTHER PENETRATIONS. ALL PENETRATIONS AND PERIMETER OF WALLS TO BE FIRE CAULKED.
- F. STEEL STUD PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.
- G. REFER TO FLOOR PLANS FOR LOCATIONS OF INTERIOR PARTITION TYPES.
- H. REFER TO SHEET A0.05 FOR TYPICAL INTERIOR PARTITIONS DETAILS.
- I. ALL PARTITIONS SCHEDULED RECEIVE WALL TILE SHALL HAVE CEMENTITIOUS BACKER UNIT TO FULL HEIGHT OF WALL TILE.
- J. ALL PENETRATIONS IN FIRE RATED PARTITIONS SHALL BE FIRESTOPPED, WHETHER THEY ARE NEW OR EXISTING. INCLUDING THOSE CREATED BY THE REMOVAL OF AN EXISTING PENETRATING ITEM. FIRESTOPPING SYSTEMS SHALL BE FM OR U.L. LABORATORY APPROVED PRODUCTS.
- K. APPLY ACOUSTICAL SEALANT AT ENTIRE PERIMETER OF ALL GYPSUM BOARD PARTITIONS.
- L. EXISTING BUILDING FLOOR TO FLOOR HEIGHTS FOR AREAS OF WORK:
  - BASEMENT TO FIRST FLOOR: 8'-9"
  - FIRST FLOOR TO ROOF: 9'-11"



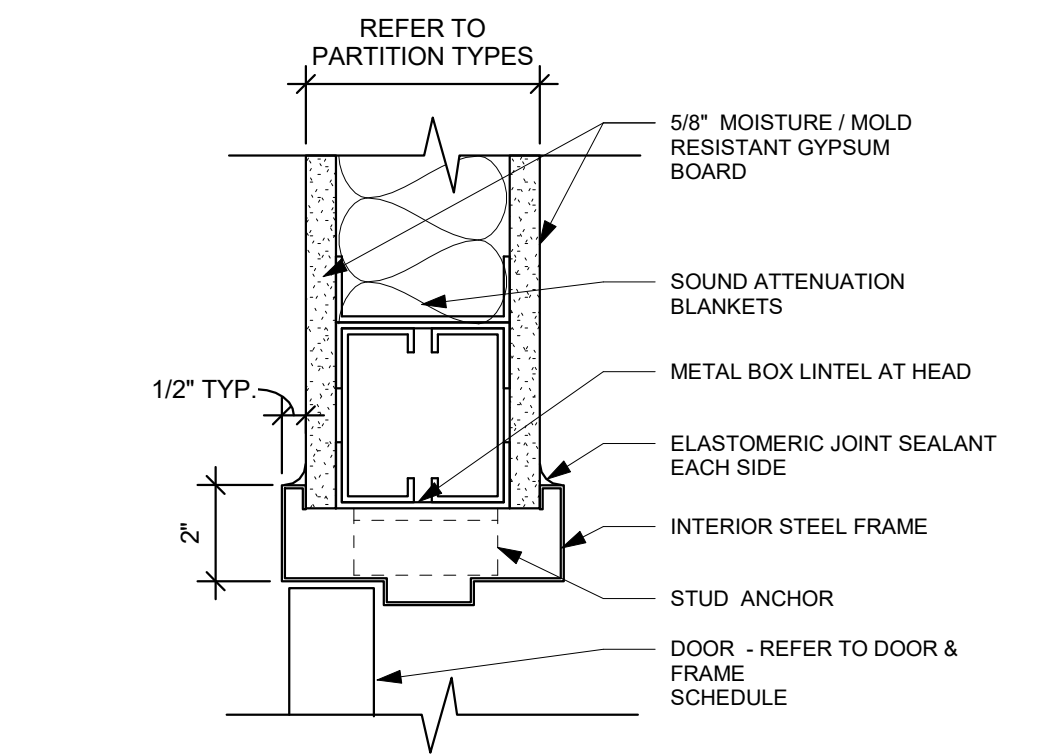
F6 TYP. DEFLECTION TRACK DETAIL (RATED)  
3" = 1'-0"

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1	10/08/2025	ADDENDUM 2
2	11/11/2025	CODE REVISIONS

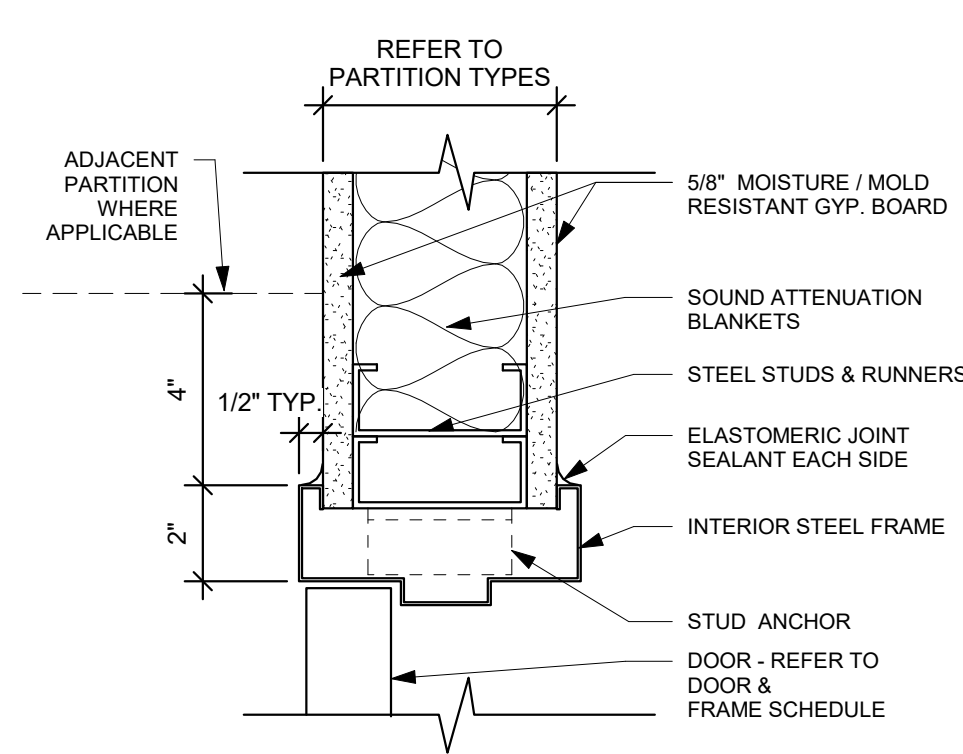
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TITLE	WALL TYPES

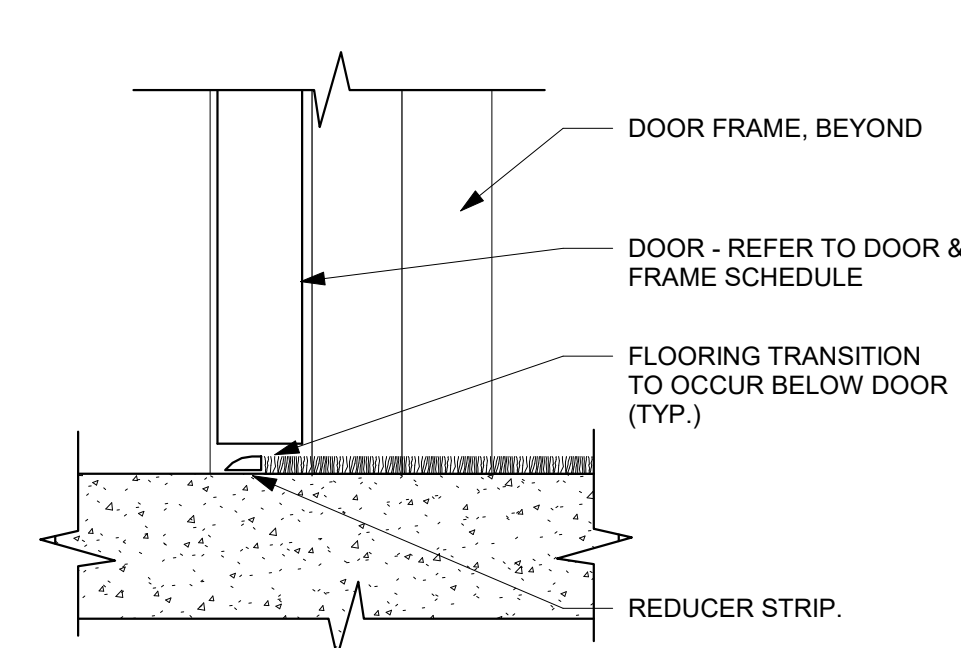




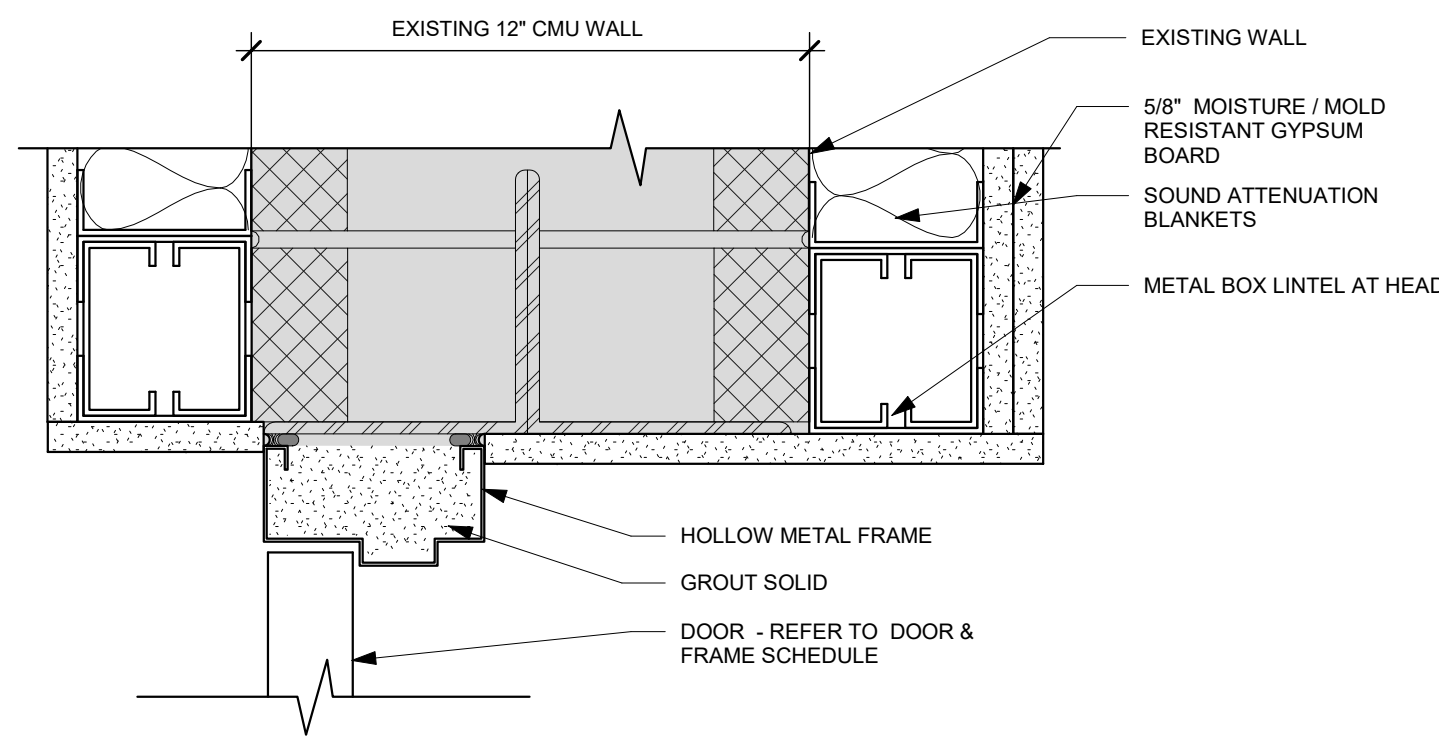
B1 TYP. INTERIOR DOOR HEAD DETAIL  
3" = 1'-0"



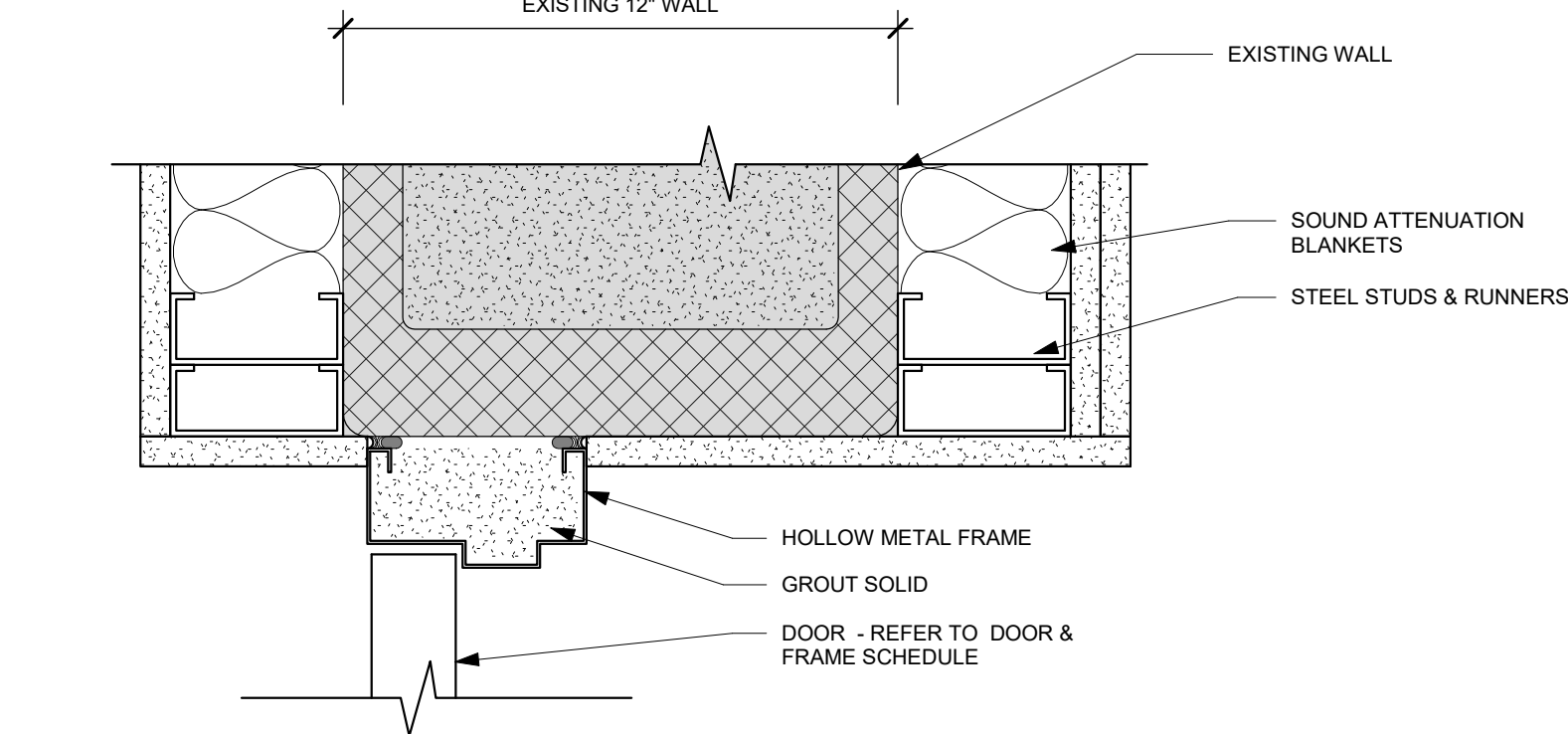
B3 TYP. INTERIOR DOOR JAMB DETAIL  
3" = 1'-0"



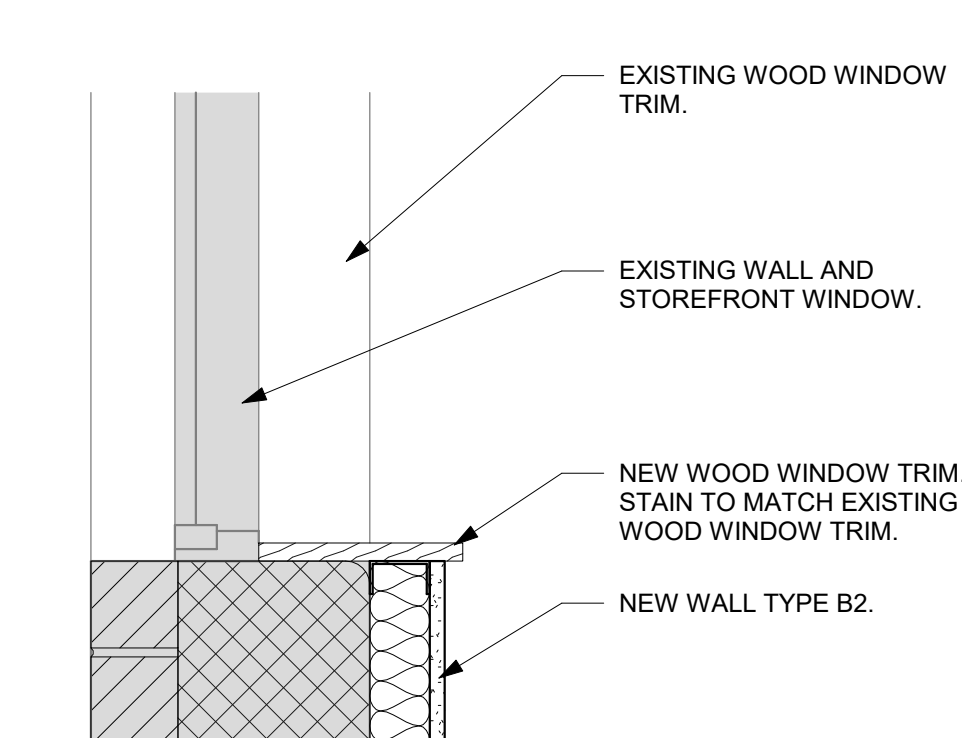
B5 TYP. INTERIOR DOOR SILL DETAIL  
3" = 1'-0"



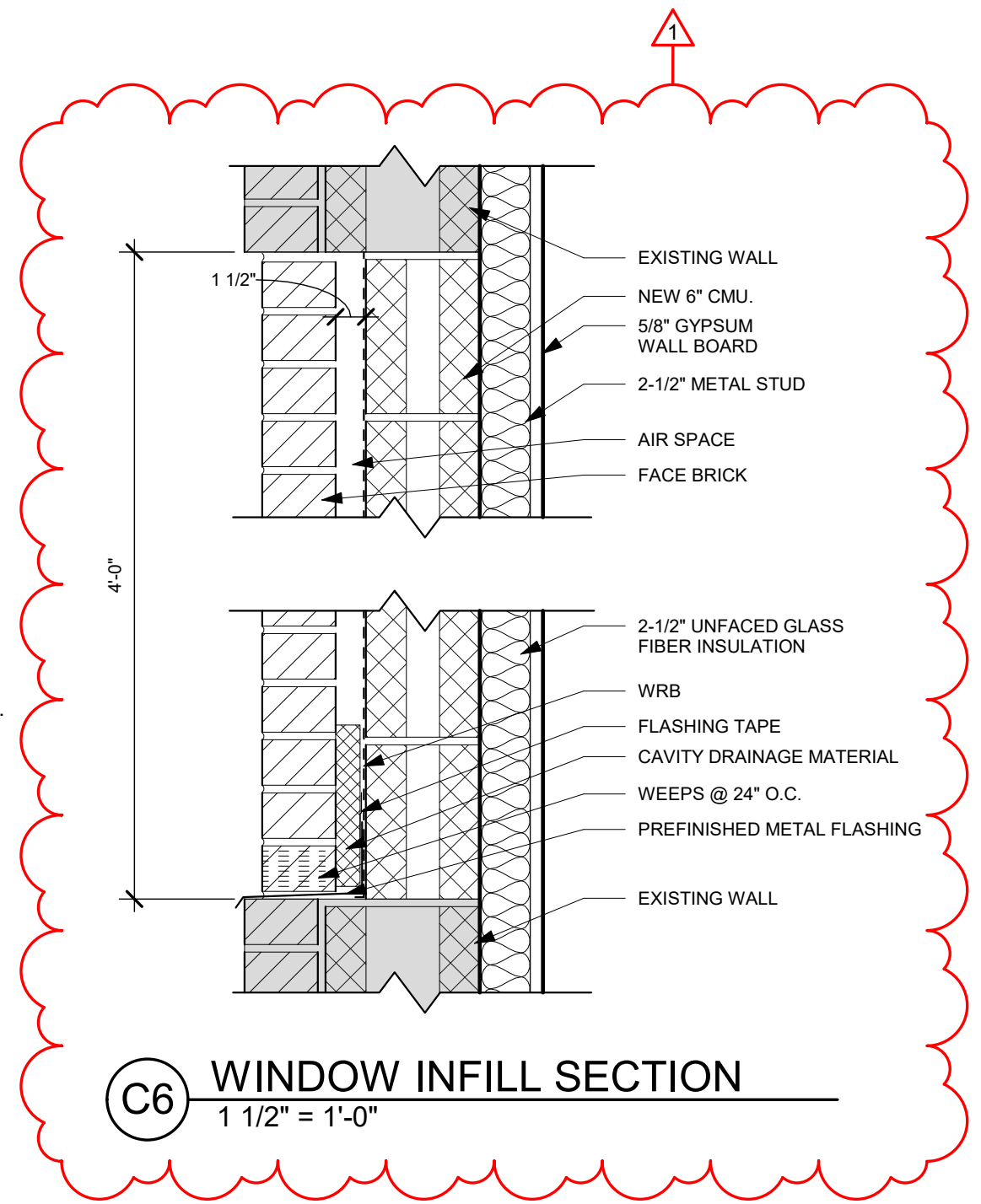
C1 INTERIOR DOOR HEAD DETAIL - FURRING WALL  
3" = 1'-0"



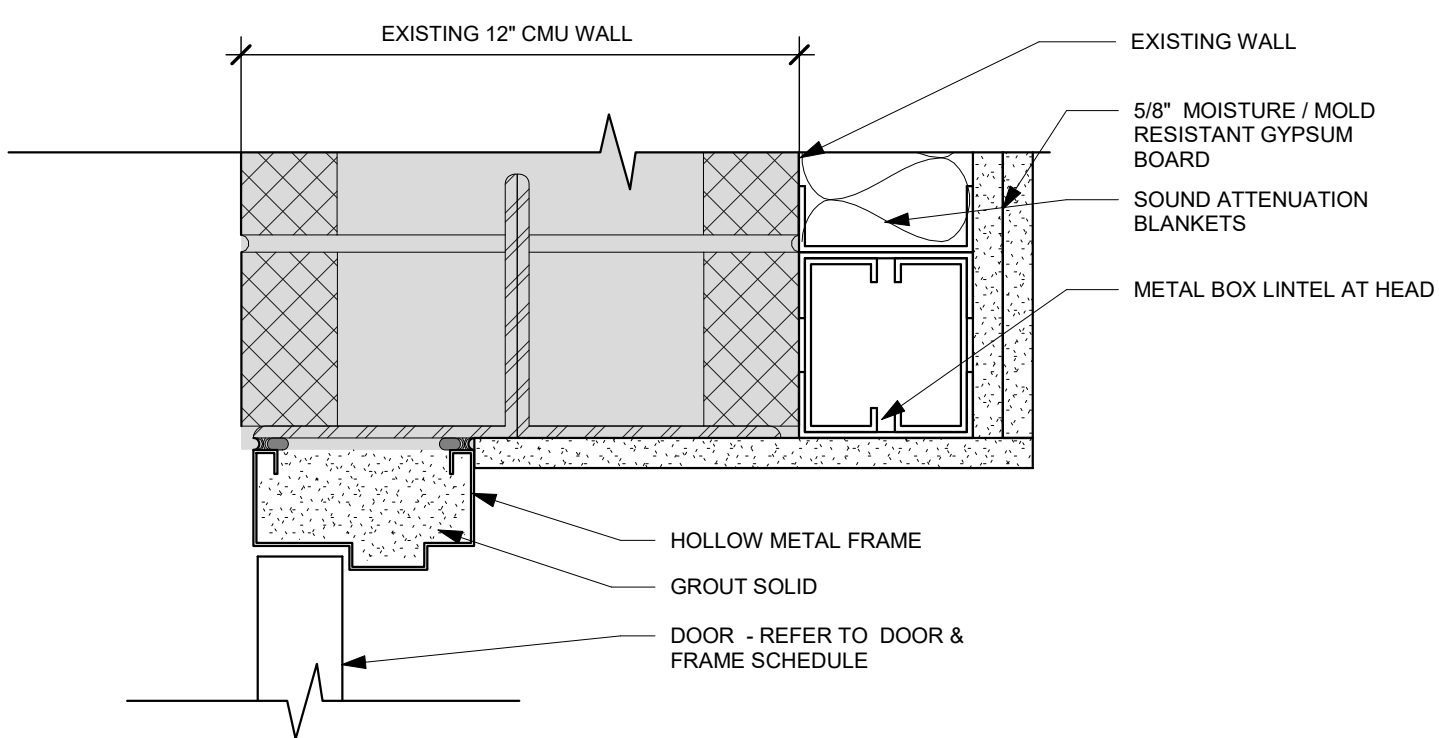
C3 INTERIOR DOOR JAMB DETAIL - FURRING WALL  
3" = 1'-0"



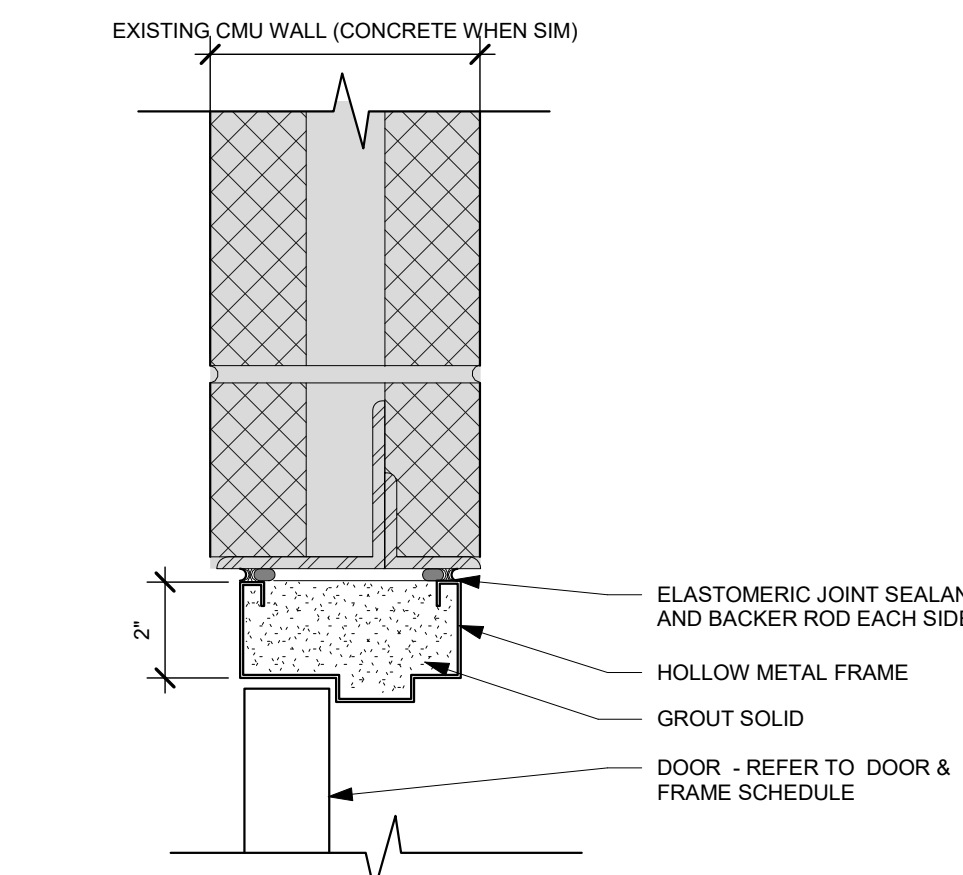
C5 WINDOW SILL DETAIL  
1 1/2" = 1'-0"



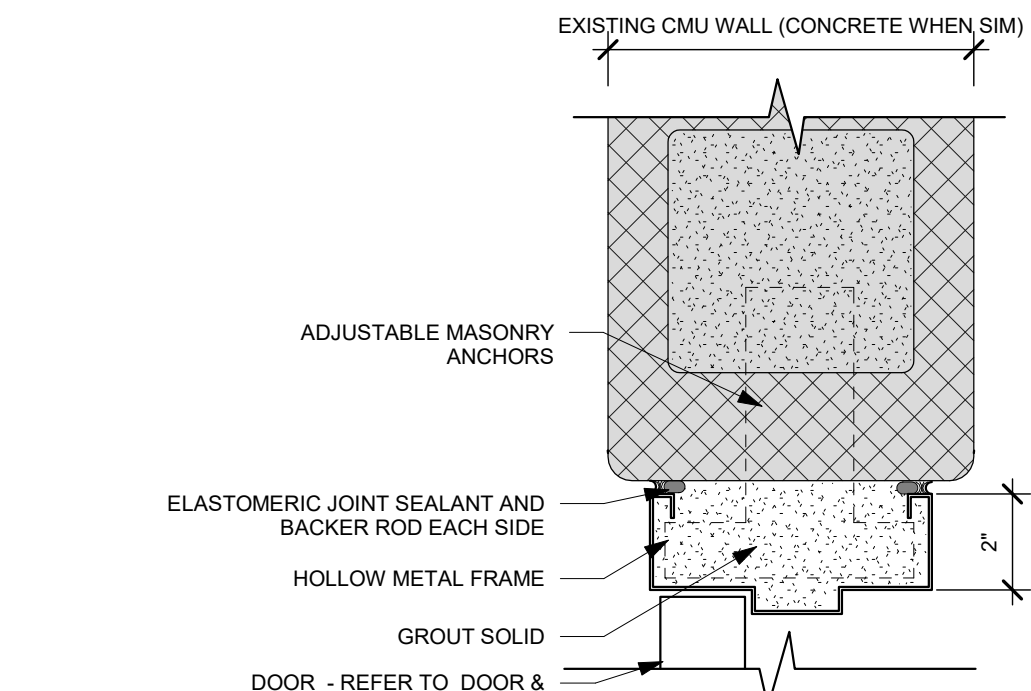
C6 WINDOW INFILL SECTION  
1 1/2" = 1'-0"



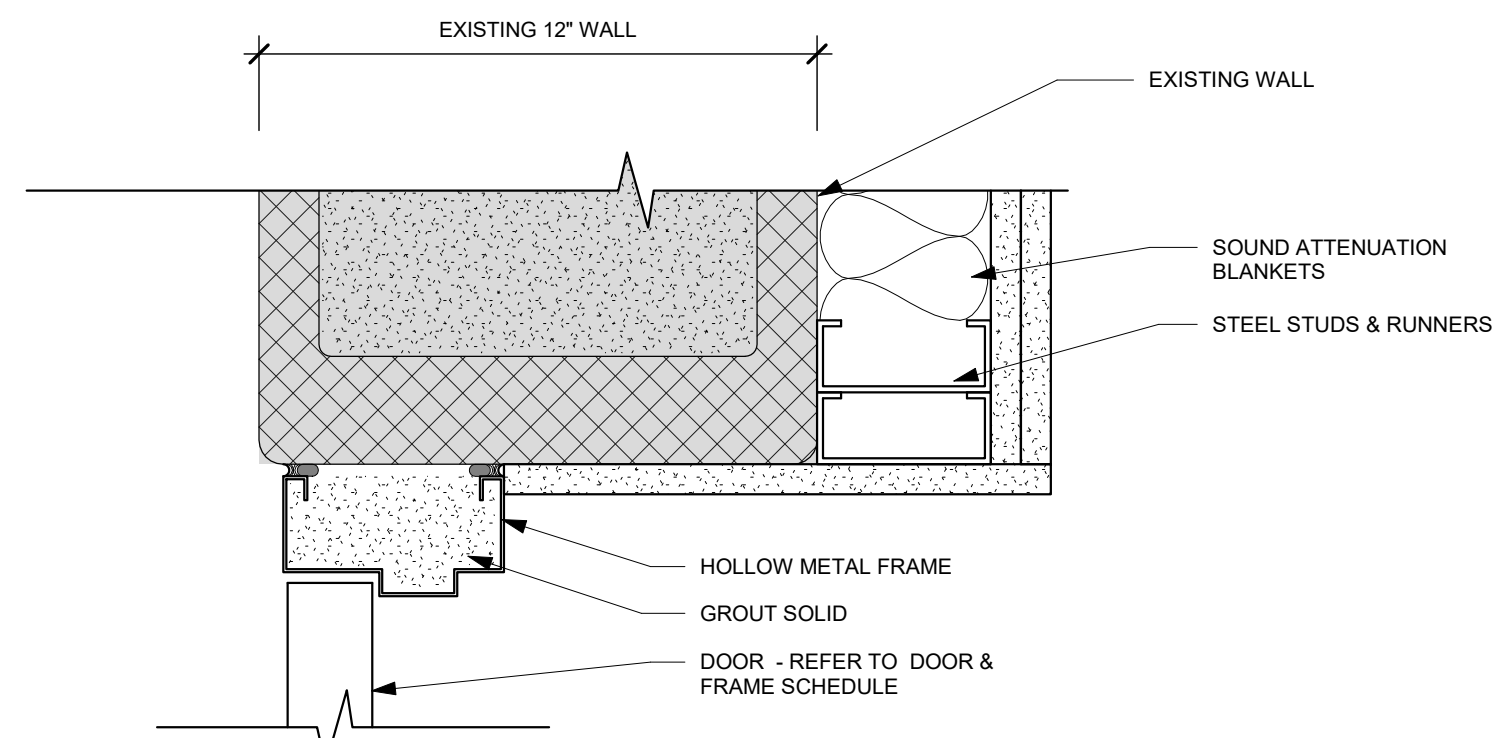
E1 INTERIOR DOOR HEAD DETAIL - APP BAY CMU WALL  
3" = 1'-0"



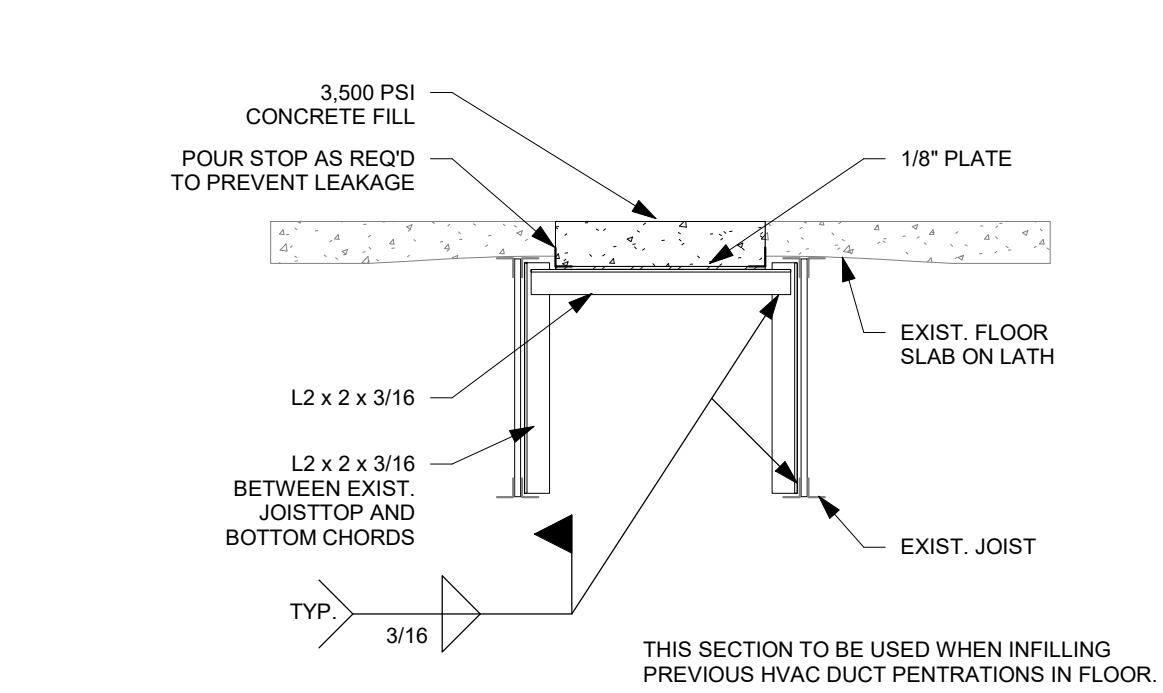
E3 TYP. EXISTING WALL HEAD DETAIL - CMU  
3" = 1'-0"



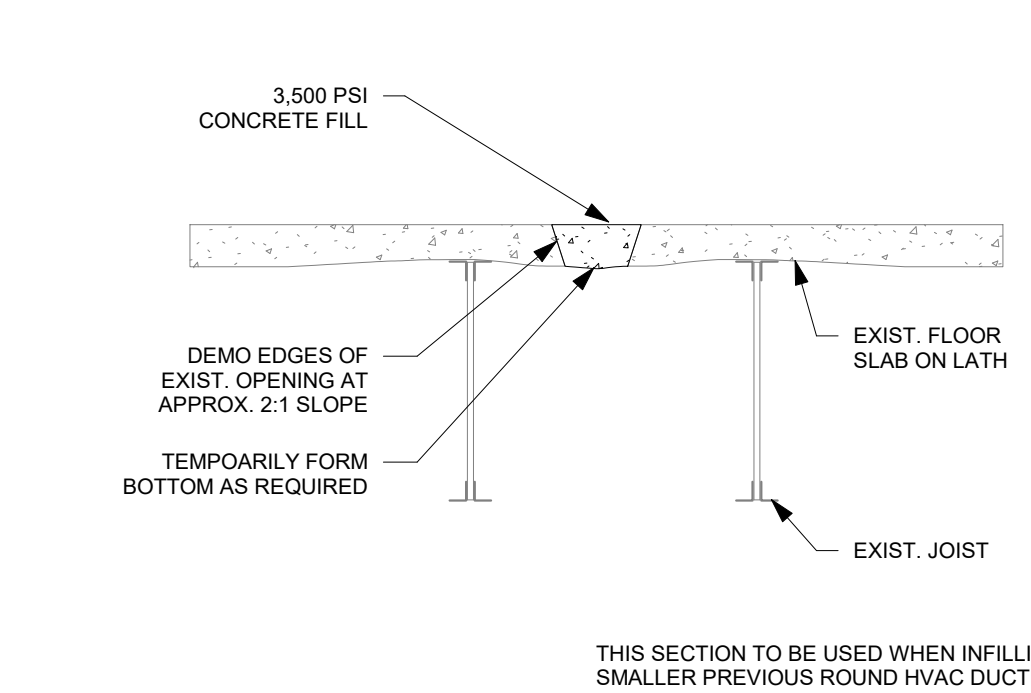
E5 TYP EXISTING WALL DOOR JAMB DETAIL - CMU  
3" = 1'-0"



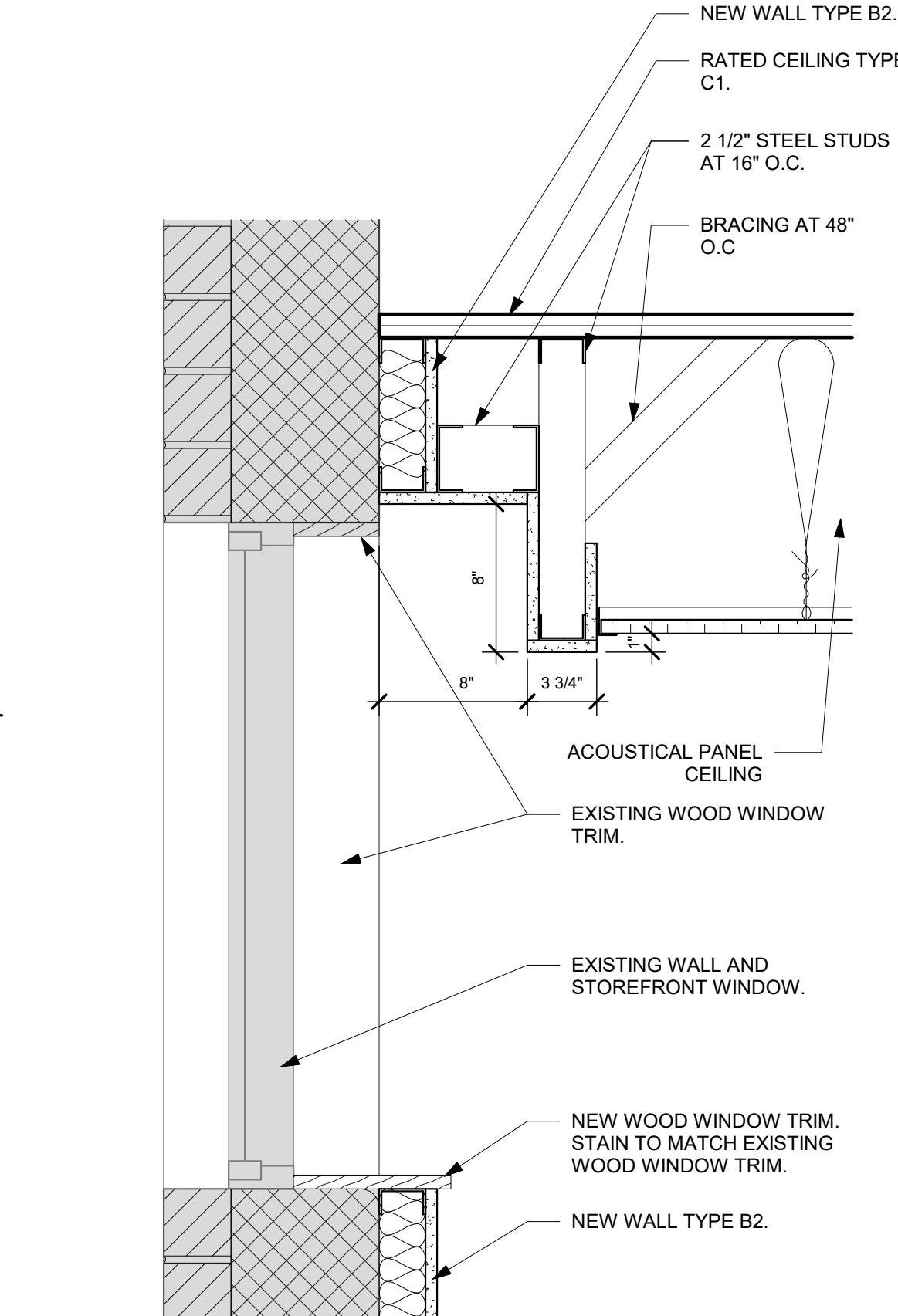
F1 INTERIOR DOOR JAMB DETAIL - APP BAY CMU WALL  
3" = 1'-0"



F3 FLOOR INFILL SECTION A  
3/4" = 1'-0"



F5 FLOOR INFILL SECTION B  
3/4" = 1'-0"



F6 WINDOW HEAD AND SILL DETAIL  
1 1/2" = 1'-0"

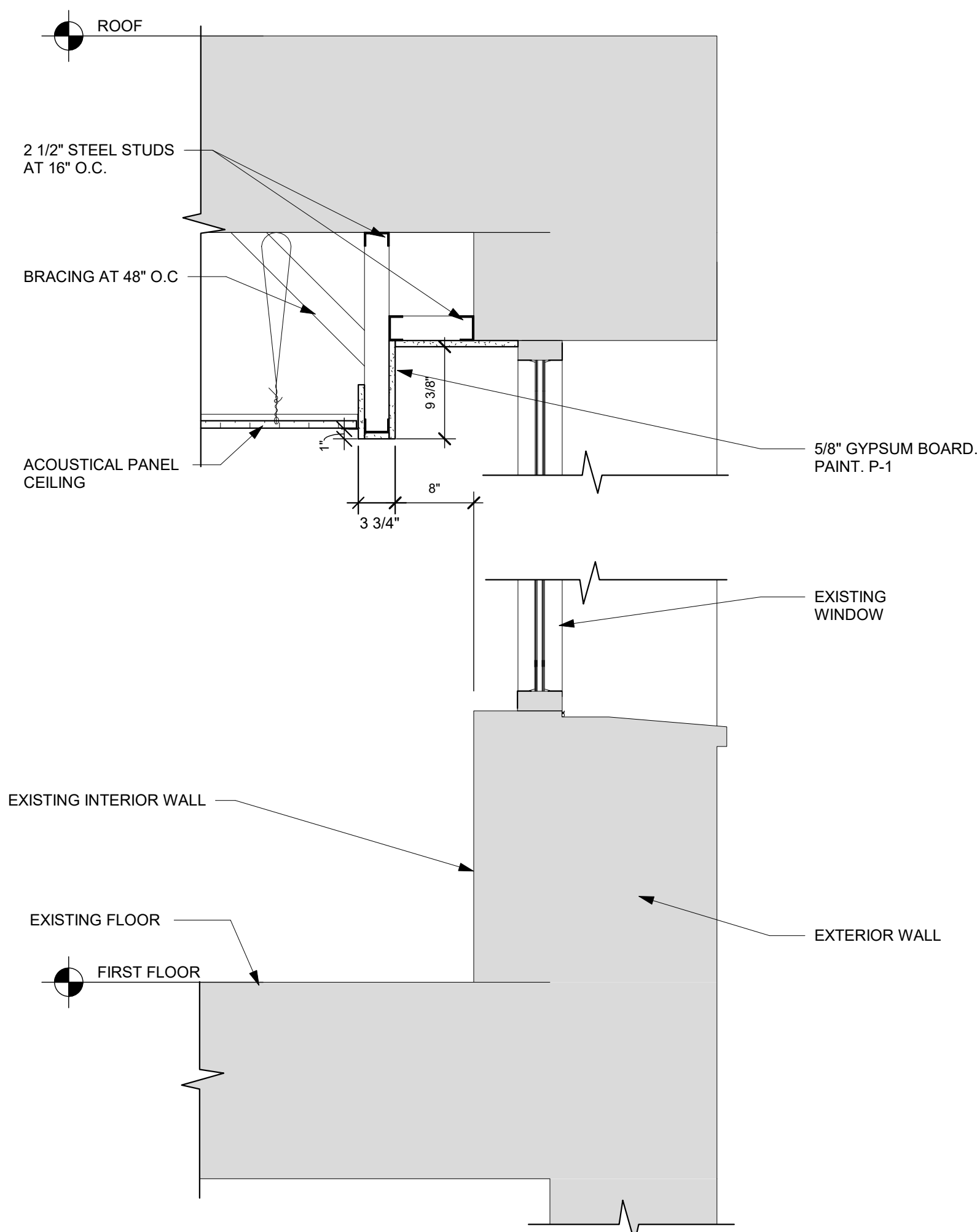
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DATE	08/01/25
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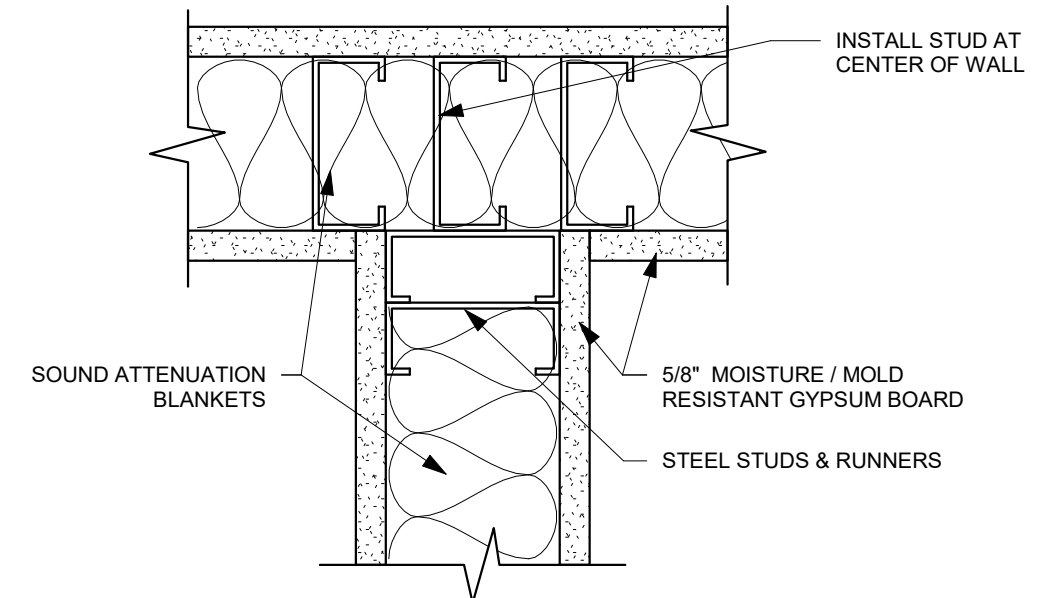
TITLE  
DOOR & INTERIOR  
DETAILS

SHEET NO.  
A0.05

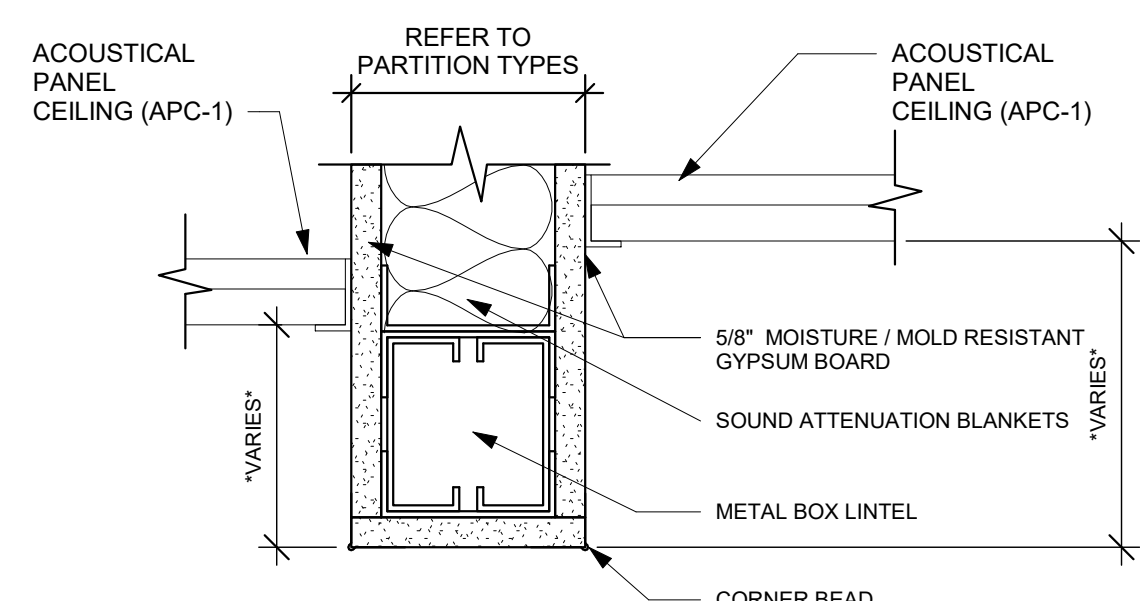




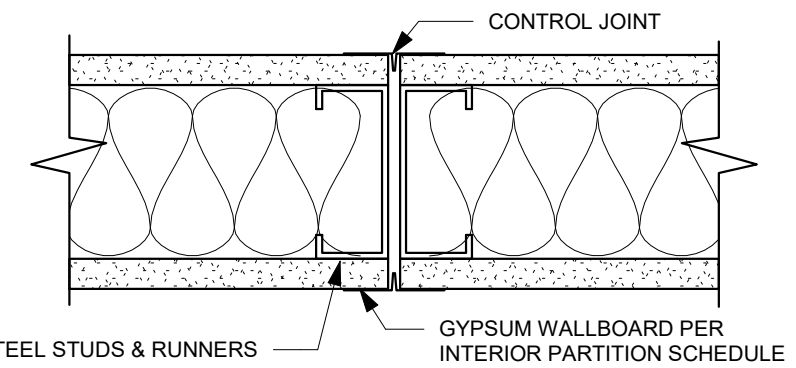
**(D1) SOFFIT DETAIL AT WINDOW**  
1" = 1'-0"



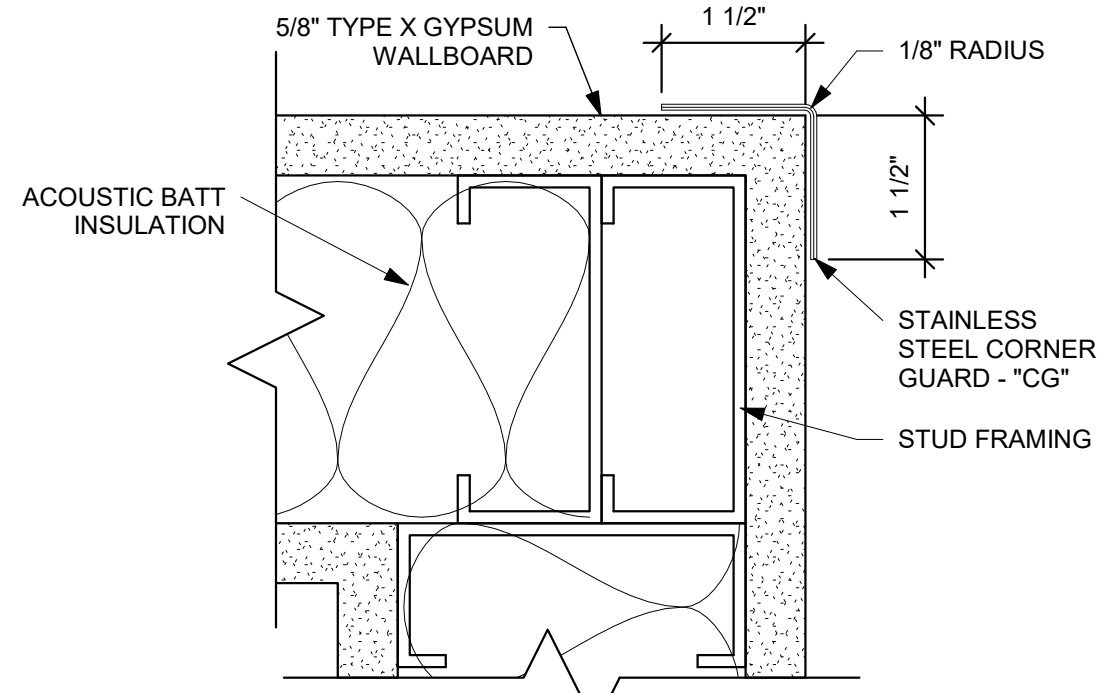
(F1) TYP. GWB WALL INTERSECTION



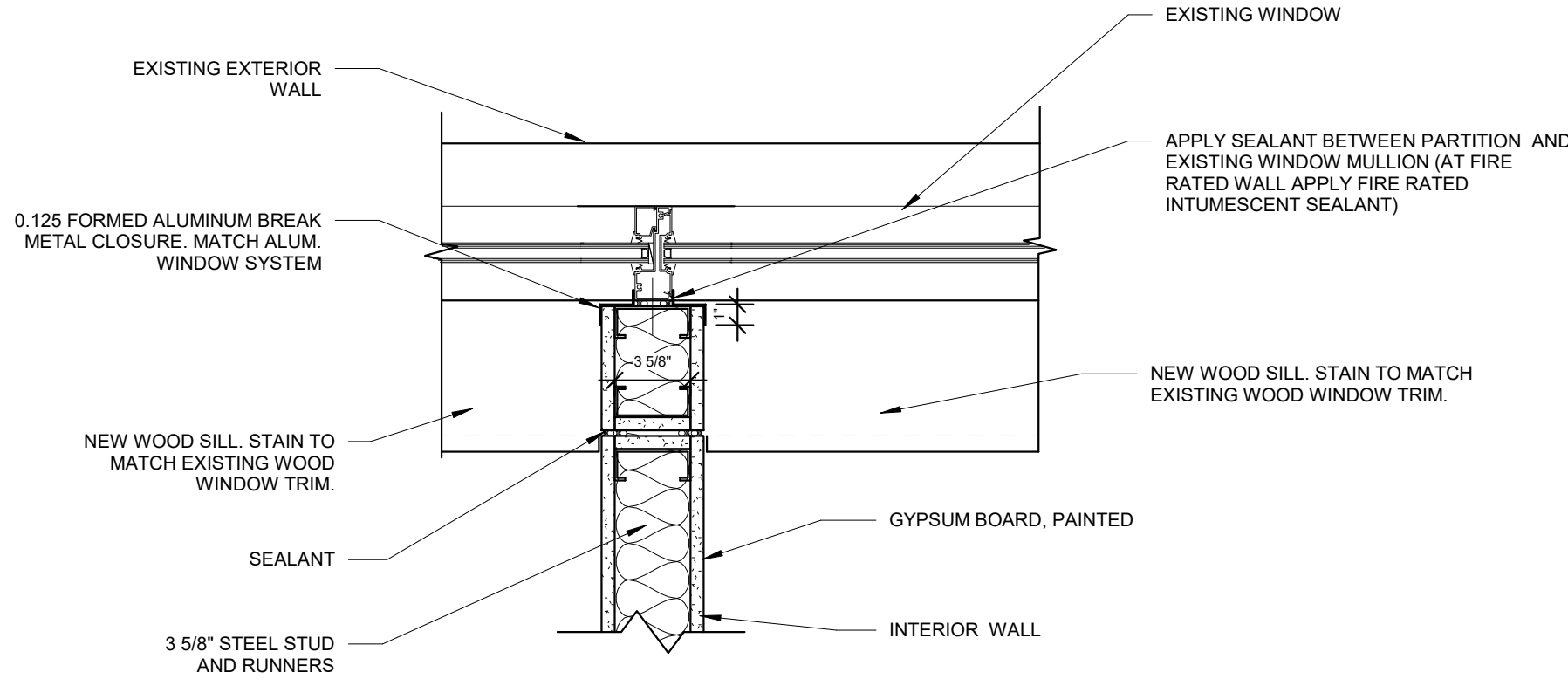
**A3** TYP. BULKHEAD DETAIL



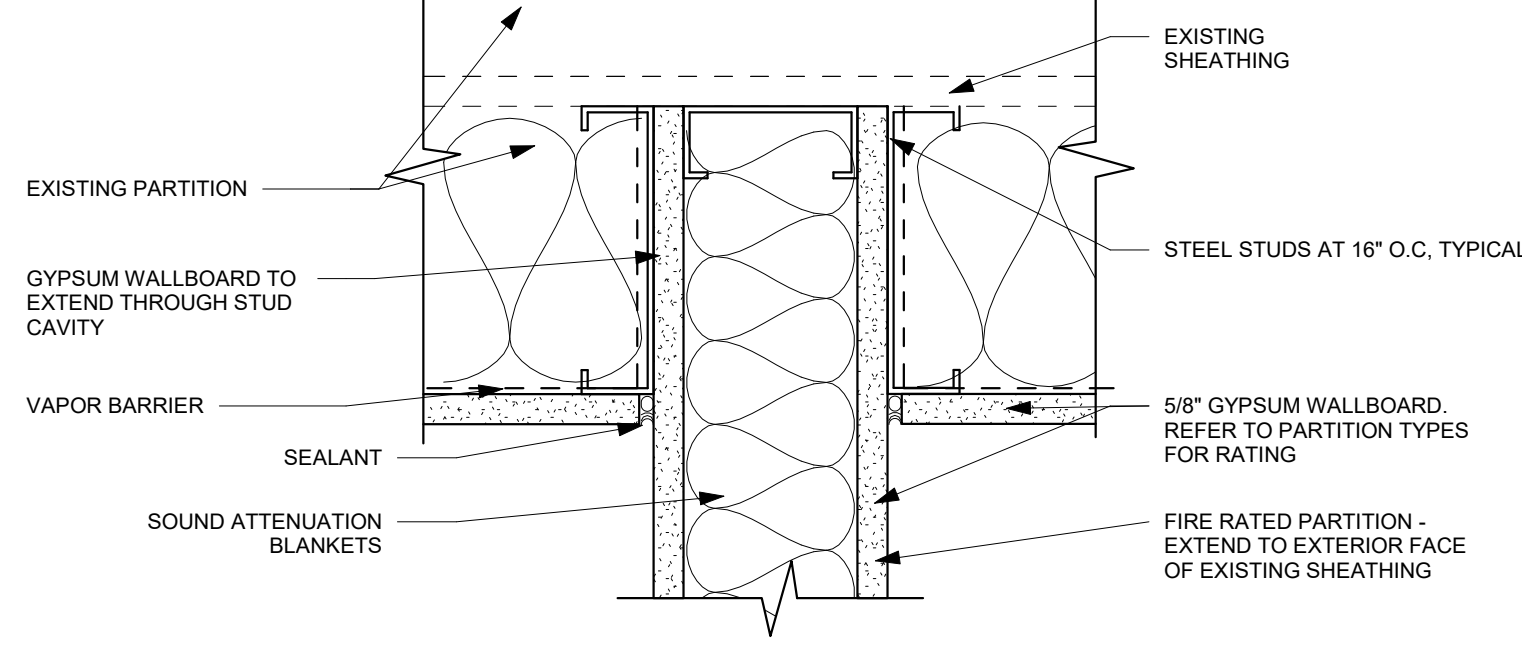
(B3) TYP. GWB EXPANSION DETAIL  
3" = 1'-0"



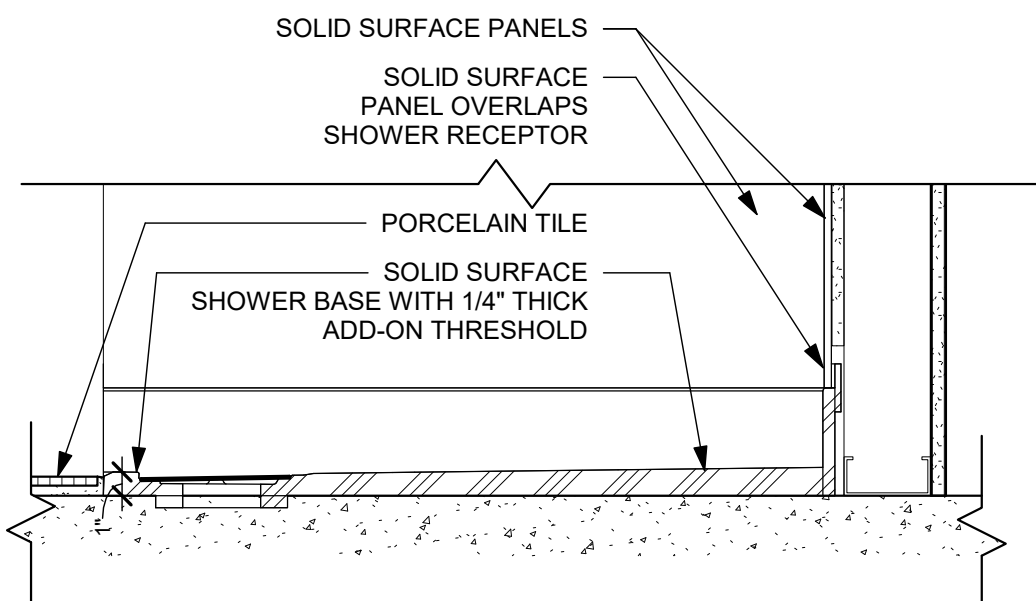
**B4** CG-1 CORNER GUARD  
6" = 1'-0"



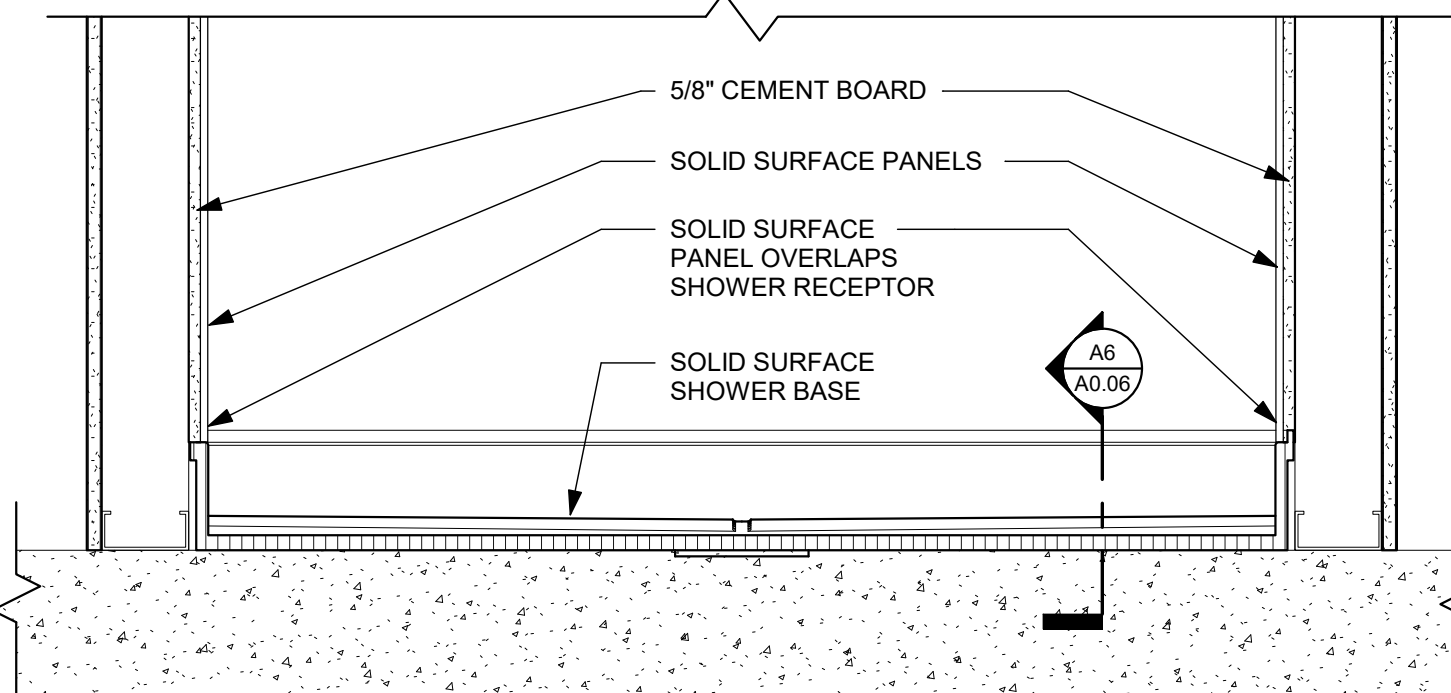
(D3) WALL TO WINDOW DETAIL - FIRE RATED  
1 1/2" = 1'-0"



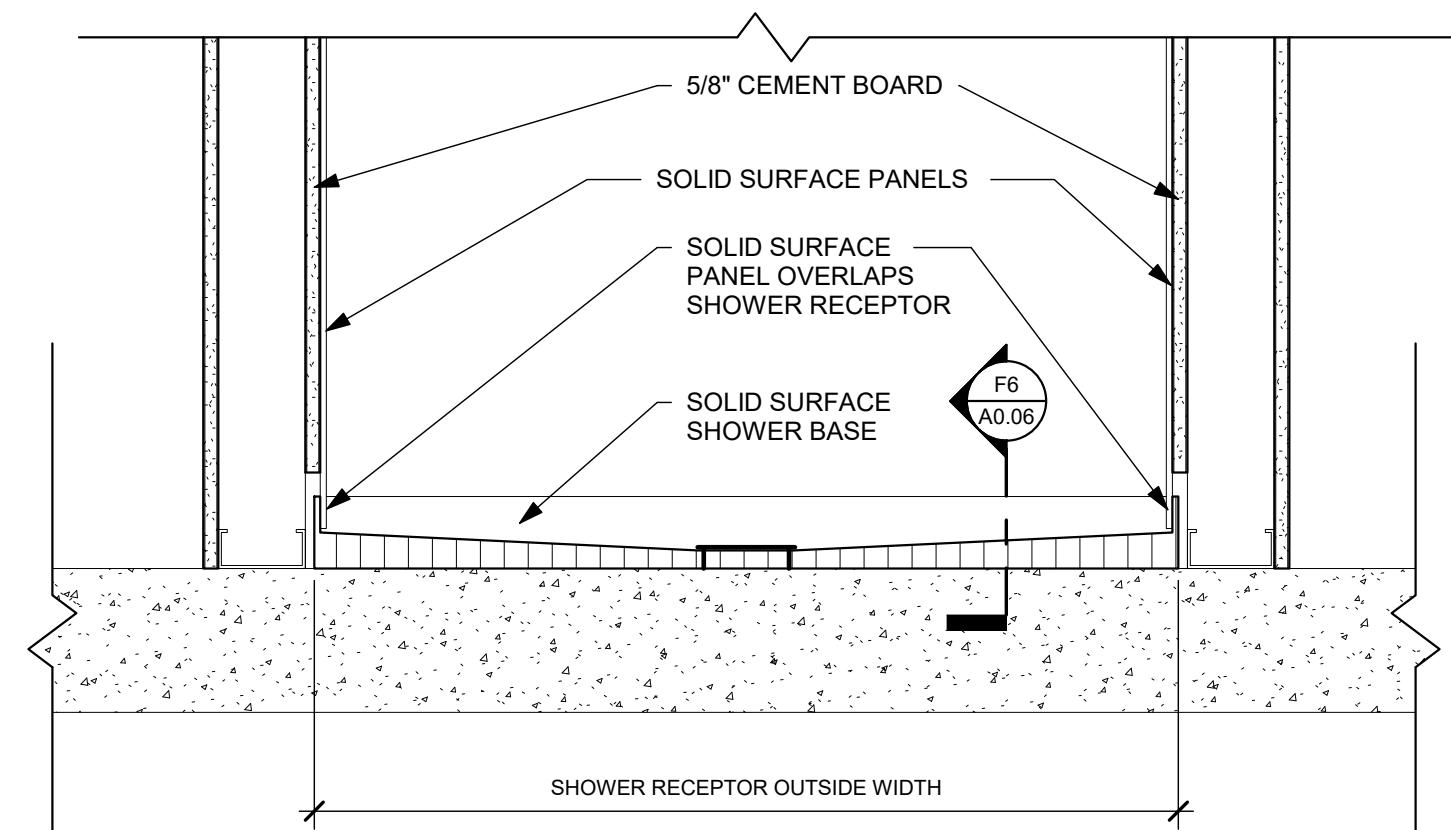
F3 TYP. INT. PARTITION INTERSECTION WITH EXISTING WALL - FIRE RTD.  
2" = 4' 0"



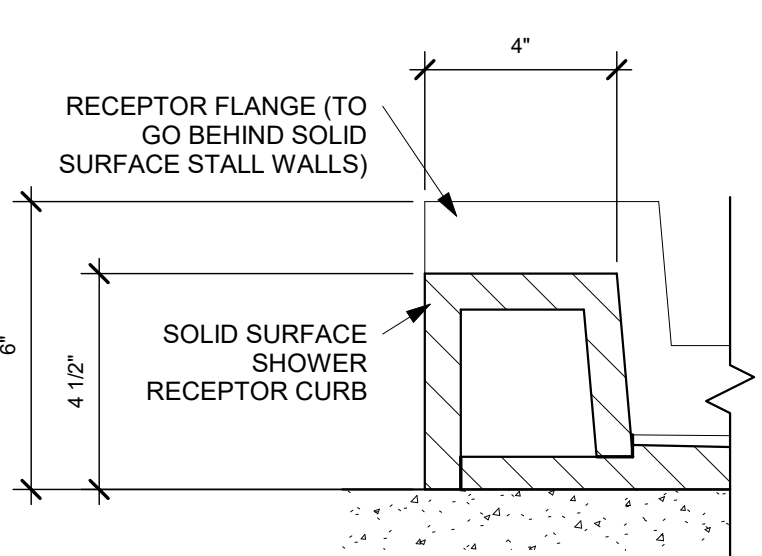
**A6** ADA TRENCH DRAIN SHOWER RECEPTOR SECTION



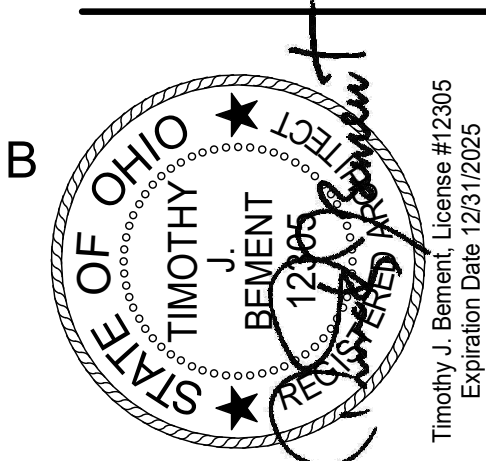
**C6** ADA TRENCH DRAIN STYLE SHOWER RECEPTOR DETAIL  
1 1/2" = 1'-0"



**E6 CURB STYLE SHOWER RECEPTOR DETAIL**  
1 1/2" = 1'-0"



**F6 CURB STYLE SHOWER CURB SECTION**  
2" = 1'-0"



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 INTERIOR DETAILS



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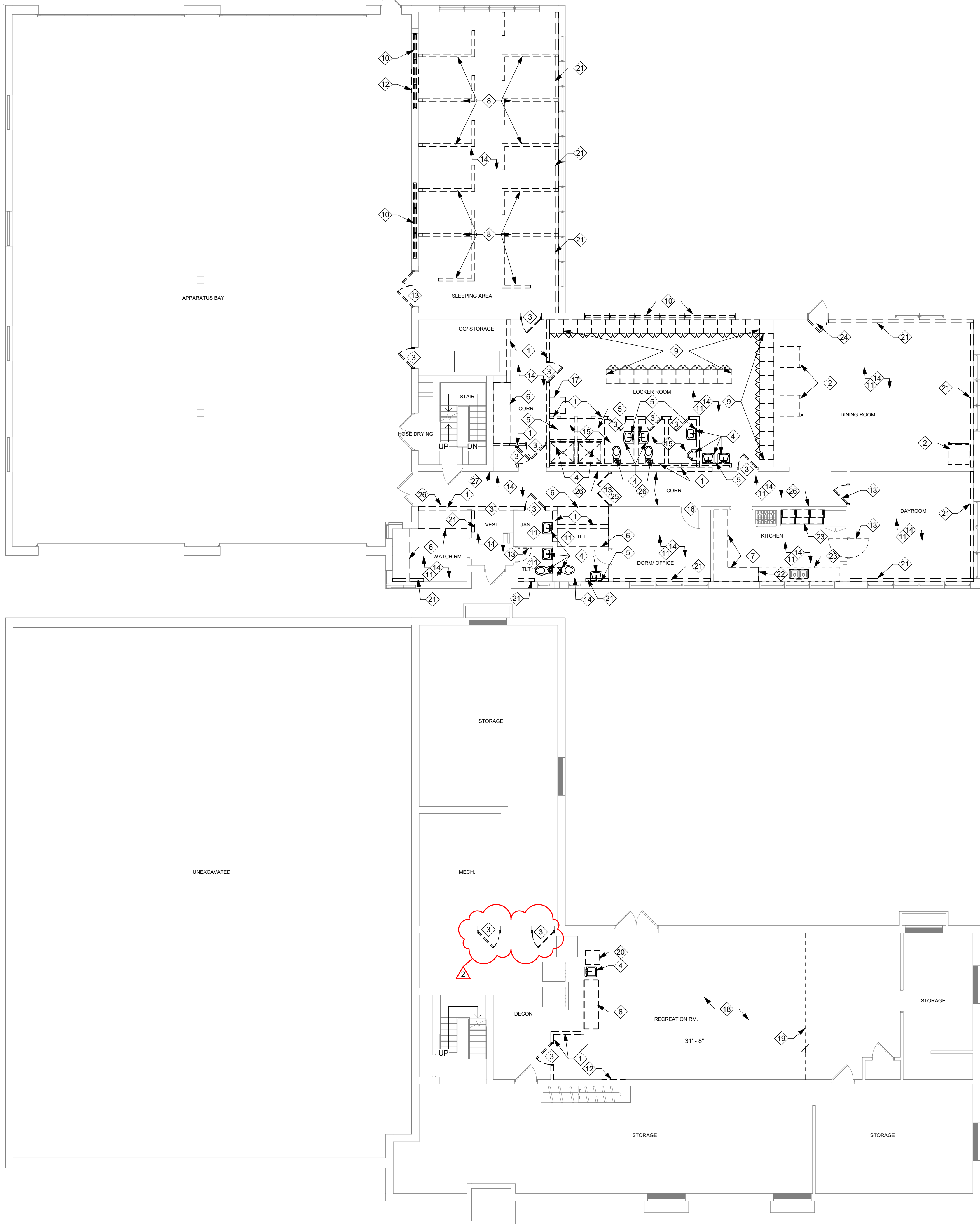
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C1 DEMOLITION FLOOR PLAN - LEVEL 1  
1/8" = 1'-0"



F1 DEMOLITION FLOOR PLAN - BASEMENT  
1/8" = 1'-0"



## DEMOLITION NOTES

100 INDICATES DEMOLITION NOTE.

- REMOVE PORTION OF EXISTING WALL IN PREPARATION FOR NEW CONSTRUCTION.
- REMOVE EXISTING APPLIANCE . RETAIN FOR OWNER.
- REMOVE EXISTING DOOR AND FRAME.
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DRAWINGS.
- REMOVE EXISTING TOILET ACCESSORIES.
- REMOVE EXISTING CASEWORK.
- REMOVE EXISTING CASEWORK. RETAIN NUMBER PLAQUES FOR REUSE. RETAIN PANTRY DOORS AND HARDWARE. STORE IN BASEMENT FOR OWNER.
- REMOVE EXISTING SLEEPING ROOM 2"X6"X6' STUD PARTITIONS.
- REMOVE EXISTING LOCKERS.
- REMOVE EXISTING WINDOWS. RETAIN EXISTING STEEL LINTEL. PREPARE OPENING FOR INFILL.
- REMOVE AIR DEVICES IN FLOOR. REFER TO HVAC DRAWINGS.
- REMOVE PORTION OF EXISTING WALL IN PREPARATION FOR NEW DOOR.
- REMOVE EXISTING DOOR. DOOR FRAME TO REMAIN.
- NEW FLOORING TO BE OVERLAYED ON EXISTING VCT FLOORING. PREP. AND LEVEL VCT FLOOR FOR NEW FLOORING. EXISTING VCT FLOORING ELEMENTS MAY CONTAIN ASPESOTOS.
- REMOVE EXISTING TILE FLOORING. PREP. AND LEVEL CONCRETE SLAB FOR NEW FLOORING.
- REMOVE EXISTING DOOR SLAB. DOOR FRAME TO BE REUSED.
- REMOVE EXISTING WALL MOUNTED HEATER.
- PREP AND LEVEL CONCRETE FLOOR FOR NEW FLOORING.
- EXTENTS OF NEW FLOORING.
- REMOVE EXISTING STACKED WASHER/ DRYER. RETAIN FOR OWNER.
- REMOVE EXISTING RADIATOR. REFER TO MECH. DRAWINGS.
- REMOVE EXISTING STAINLESS STEEL COUNTER AND RETAIN FOR REUSE. CUT STAINLESS STEEL SIDESPLASH AND PREPARE SURFACE TO BE JOINED WITH PORTION OF NEW STAINLESS STEEL COUNTER.
- REMOVE EXISTING CASEWORK. RETAIN EXISTING CABINET HARDWARE AND STORE IN BASEMENT FOR OWNER.
- REMOVE EXISTING SCREEN DOOR. RETAIN EXISTING HOLLOW METAL DOOR.
- RETAIN PORTION OF CMU WALL ABOVE DOOR.
- REMOVE AND RETAIN TACK BOARD.
- REMOVE AND RETAIN STATION PLAQUE FOR REINSTALLATION.

## GENERAL NOTES

- DASHED LINES INDICATE BUILDING ELEMENTS, MATERIALS AND EQUIPMENT TO BE REMOVED.
- DURING DEMOLITION AND RECONSTRUCTION, ATTENTION MUST BE GIVEN TO MAINTAINING AND PRESERVING THE STRUCTURAL INTEGRITY OF THE BUILDING. IF ANY UNFORESEEN SITUATION DEVELOPS, NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.
- PRIOR TO CONSTRUCTION, FIELD INVESTIGATE EXISTING CONDITIONS AND NOTIFY THE OWNER AND ARCHITECT OF AND DISCREPANCIES.
- RENOVATION WORK IS EXTENSIVE THROUGHOUT AREA OF WORK. ACCESSORIES IN MULTIPLE INSTANCES ARE TO BE REMOVED. CONTACT ARCHITECT IF ANY QUESTIONS.
- REPAIR, LEVEL, AND PREPARE EXISTING CONCRETE FLOOR SLABS TO RECEIVE NEW FLOOR FINISH INCLUDING AREAS WHERE OLD WALLS ARE REMOVED.
- REFER TO PLUMBING, HVAC & ELECTRICAL DRAWINGS FOR OTHER ITEMS THAT NEED TO BE REMOVED.

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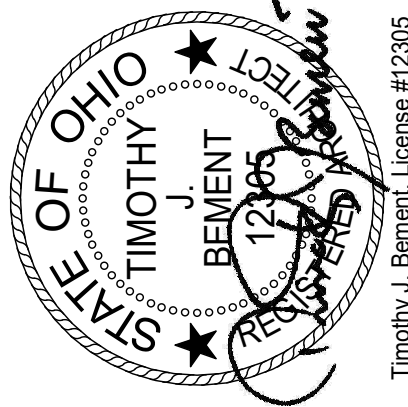
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TITLE  
**DEMOLITION PLAN**

SHEET NO.

**A1.11**



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## CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

- 1 HOUR RATED PARTITION AROUND DORMS AS INDICATED. RATED PARTITIONS EXTEND TO ROOF DECK ABOVE. REFER TO SHEET A0.04 & A0.06 FOR RATED ASSEMBLY DETAILS.
- INFILL WINDOWS WITH 12" CMU.
- ADJUSTABLE SHELVES. REFER TO CASEWORK DETAILS.
- ABRADE EXISTING STEEL TRAP DOOR AND FRAME. PREP TO RECEIVE LVT FLOORING.
- 36" X 60" CURB STYLE SHOWER BASE.
- 36" X 60" ADA SHOWER BASE.
- ROOM TO RECEIVE NEW FLOORING. REFER TO ROOM FINISH SCHEDULE.
- ROOM TO RECEIVE NEW PAINT. REFER TO ROOM FINISH SCHEDULE.
- INFILL WINDOWS WITH 6" METAL STUDS AND FIBER CEMENT PANEL. REFER TO DETAIL C8/A0.05.
- CLEAN CONCRETE FLOOR.
- EXISTING GEAR EXTRACTORS TO REMAIN.
- EXISTING GEAR DRYING HANGER MOVED FROM 001 STORAGE.
- REPLACE AND REPAIR GROUT IN CMU WALL. PREP FOR PAINT.
- CLEAN GLAZED CMU AND GROUT.
- 42" X 84" FRAMELESS MIRROR. MOUNT TO WALL @ 6" A.F.F.
- REPLACE SCREEN DOOR.
- REINSTALL STATION PLAQUE @ 4' - 4" A.F.F.
- INFILL DOOR WITH 12" CMU.
- ADD STEEL HINGE PLATES. PAINT EP-3
- STATION CREST VINYL WALL GRAPHIC LOCATION. 48" X 48". ART TO BE SUPPLIED BY OWNER.
- NEW WOOD WINDOW SILL. STAIN TO MATCH EXISTING WOOD WINDOW TRIM. REFER TO DETAIL C5/A0.05.
- 36" X 36" CURB STYLE SHOWER BASE.
- 23 THE DORM WING SEPARATED BY A 2 HOUR BARRIER IS TO BE SUPPRESSED. REFER TO THE FIRE SUPPRESSION SHEETS FOR DETAILS.
- 24 THIS ROOM TO BE SUPPRESSED. REFER TO FIRE SUPPRESSION SHEETS FOR DETAILS.
- 25 EXISTING FORMED CONCRETE WALL TO HAVE A 2HOUR RATED EQUIVALENCY PER OBC 202 TABLE 721.1(2) ITEM NO. 4-1.1. SEAL ALL PENETRATIONS TO MAINTAIN RATING.

## GENERAL NOTES

- ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.
- ALL PARTITIONS TO BE CONSTRUCTED TO DECK ABOVE U.N.O.
- PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.
- REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.
- FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
- ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.
- HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.
- DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.
- FURNITURE SHOWN FOR REFERENCE ONLY.
- REFER TO ENLARGED PLANS FOR ADDITIONAL DETAILS.
- INFILL ALL FLOOR OPENINGS CREATED FROM REMOVAL OF HVAC DUCTWORK PENETRATIONS. REFER TO SHEET A0.05 FOR INFILL DETAILS.
- SEAL ALL PENETRATIONS IN EXISTING WALLS TO HAVE A RATING EQUIVALENCY TO ACHIEVE THE STATED RATING.

## FIRE BARRIER LEGEND

- SMOKE RESISTIVE
- 1 HR. FIRE PARTITION
- 1 HR. FIRE/SMOKE BARRIER
- 2 HR. FIRE BARRIER
- 2 HR. FIRE/SMOKE BARRIER
- 3 HR. FIRE BARRIER

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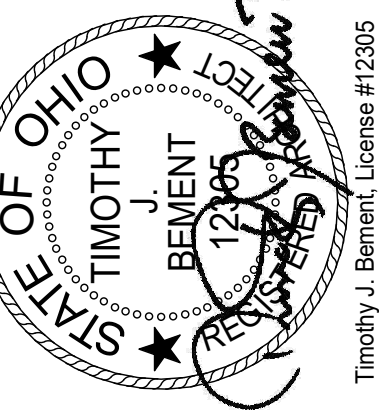
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TITLE  
**REFERENCE PLANS**

SHEET NO.  
**A1.12**

**C1** NEW WORK FLOOR PLAN - LEVEL 1  
1/8" = 1'-0"



**F1** NEW WORK FLOOR PLAN - BASEMENT  
1/8" = 1'-0"



1 ACCESSIBLE PUBLIC ENTRY

UNEXCAVATED

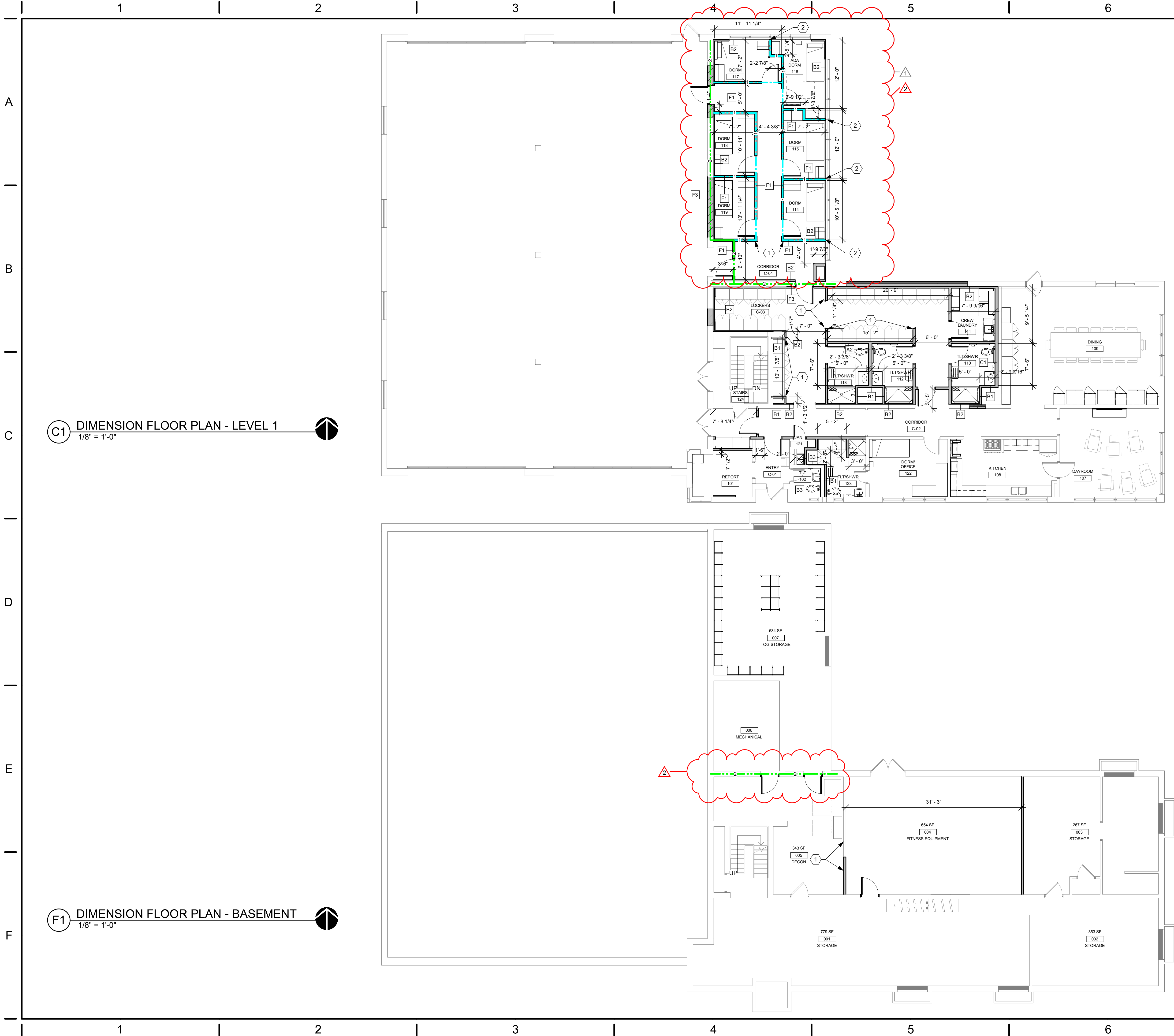
TRAVEL DISTANCE TO EXIT = 110'-3"  
COMMON PATH OF TRAVEL = 73'-9"

BASEMENT EGRESS TRAVEL IS A  
NONCONFORMING EXISTING  
CONDITION PERMITTED TO REMAIN.  
THE SECOND MEANS OF EGRESS IS  
PROVIDED BY SEMI-ENCLOSED  
STAIRS.

TRAVEL DISTANCE TO EXIT = 97'-5"  
COMMON PATH OF TRAVEL = 72'-11"



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## CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

- 1 ALIGN
- 2 INTENTION IS FOR NEW PARTITIONS TO INTERSECT WINDOW MULLIONS TO ACHIEVE 30 MINUTE FIRE RATING BETWEEN NEW DORM ROOMS. REVIEW ANY DISCREPANCIES WITH ARCHITECT DURING FRAMING LAYOUT.

## GENERAL NOTES

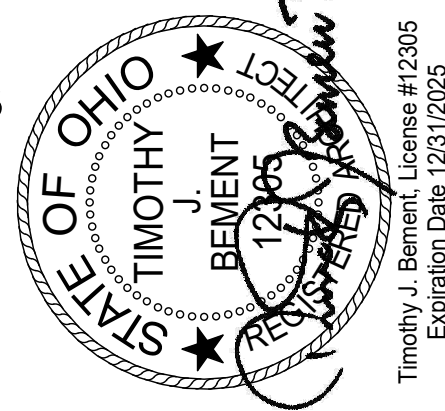
- ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.
- ALL PARTITIONS TO BE CONSTRUCTED TO DECK ABOVE U.N.O.
- PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.
- REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.
- FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE PLAN AND LANDSCAPE PLAN.
- ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.
- HINGE SIDE OF DOORS ARE 6" FROM ADJACENT WALL U.N.O.
- DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.
- FURNITURE SHOWN FOR REFERENCE ONLY.
- REFER TO ENLARGED PLANS FOR ADDITIONAL DETAILS.
- INFILL ALL FLOOR OPENINGS CREATED FROM REMOVAL OF HVAC DUCTWORK PENETRATIONS. REFER TO SHEET A0.05 FOR INFILL DETAILS.
- SEAL ALL PENETRATIONS IN EXISTING WALLS TO HAVE A RATING EQUIVALENCE TO ACHIEVE THE STATED RATING.

## FIRE BARRIER LEGEND

- |       |                          |
|-------|--------------------------|
| ..... | SMOKE RESISTIVE          |
| 1     | 1 HR. FIRE PARTITION     |
| 1S    | 1 HR. FIRE/SMOKE BARRIER |
| 2     | 2 HR. FIRE BARRIER       |
| 2S    | 2 HR. FIRE/SMOKE BARRIER |
| 3     | 3 HR. FIRE BARRIER       |

**App Architecture**  
creative focused design

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www.app-arch.com



CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT**  
**STATION 16**

4111 Kings Highway, Dayton, Ohio, 45406

### ISSUE

NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION
1	10/08/2025	ADDENDUM 2
2	11/11/2025	CODE REVISIONS

DATE 08/01/25

JOB NO. 4284.01

DRAWN AEE

CHECKED CMS/TJB

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TITLE  
**DIMENSION PLANS**

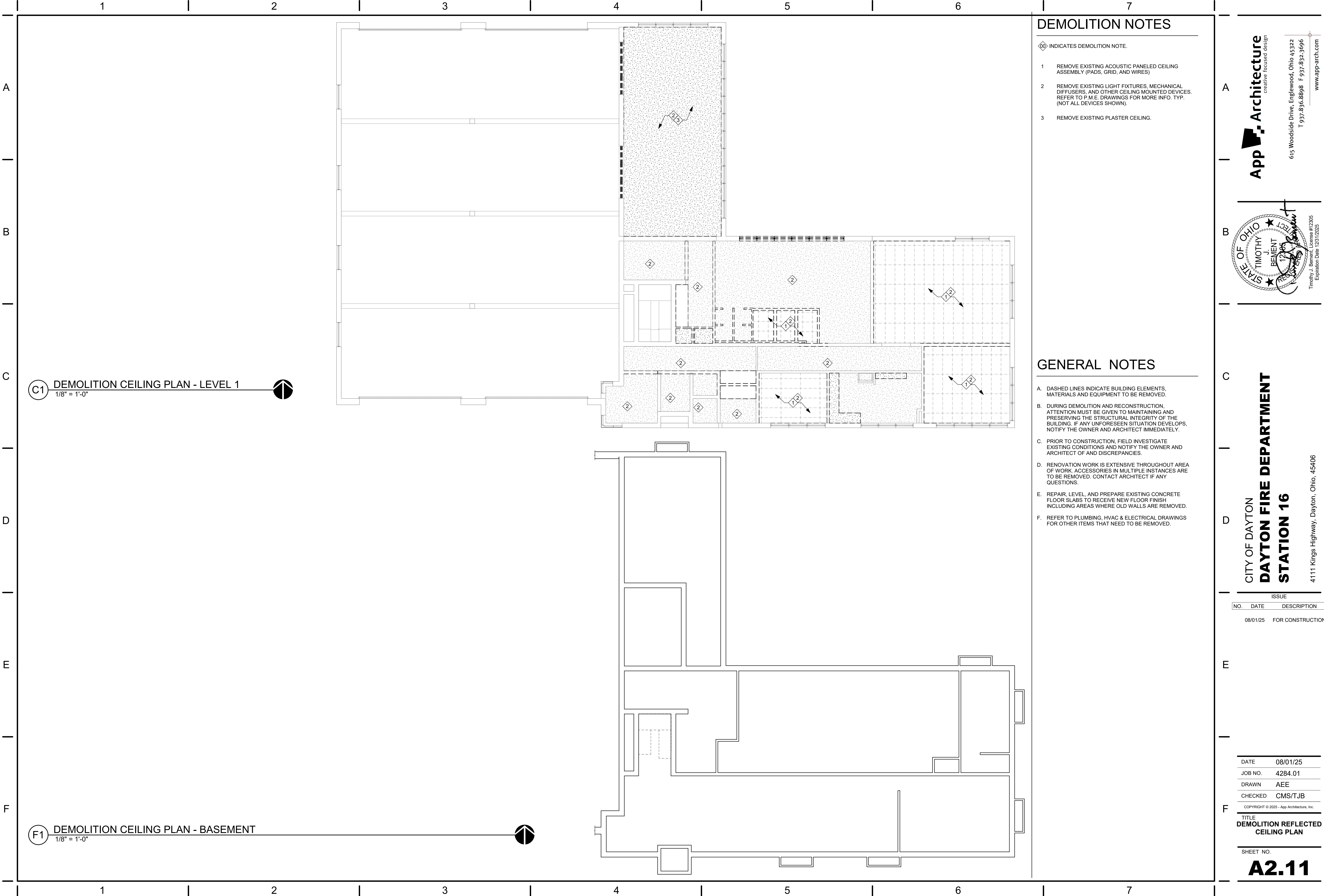
SHEET NO.

**A1.13**





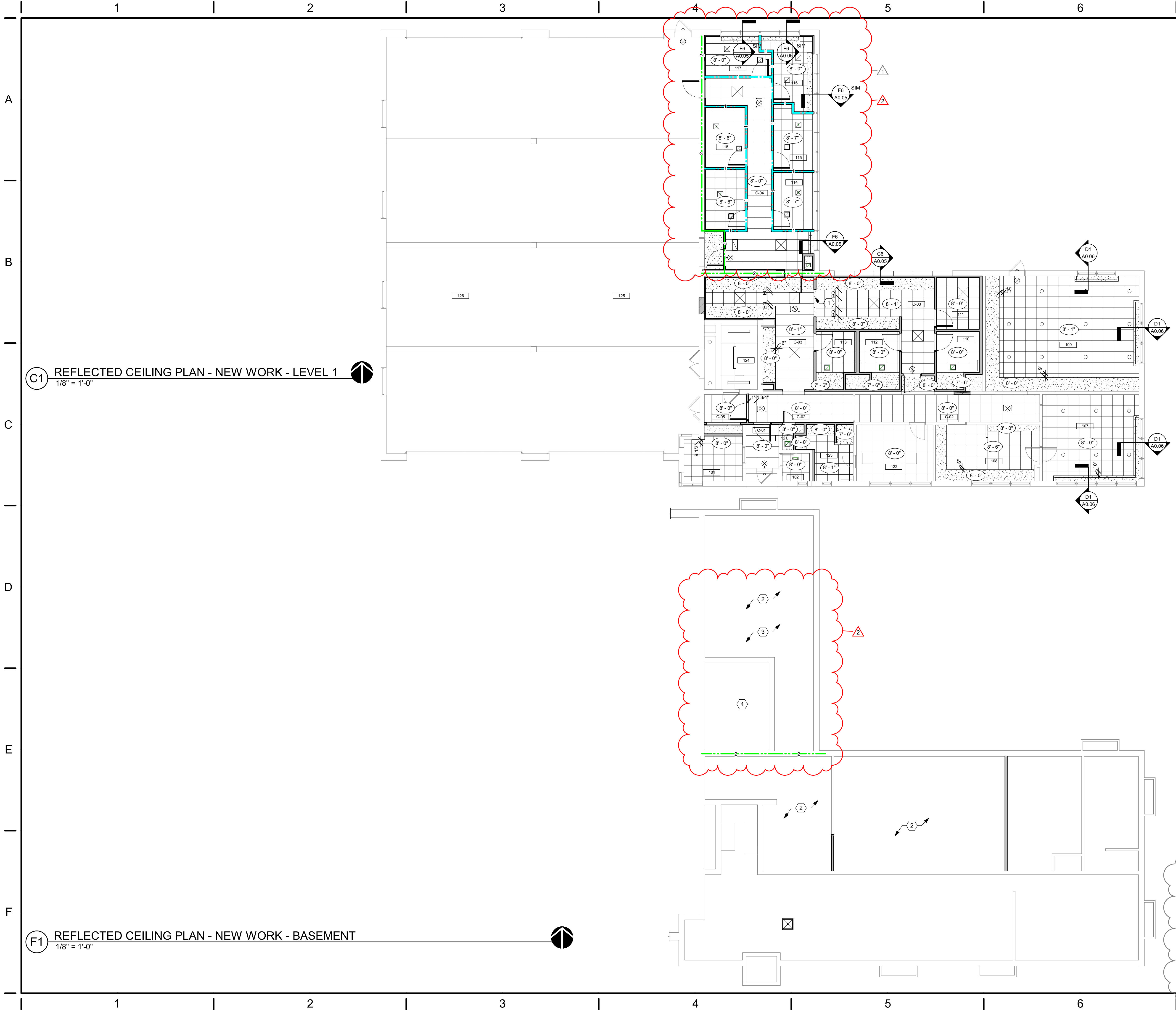




ISSUE		
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION

DATE	08/01/25
JOB NO.	4284.01
DRAWN	AEE
CHECKED	CMS/TJB
COPYRIGHT © 2025 - App Architecture, Inc.	
TITLE DEMOLITION REFLECTED CEILING PLAN	
SHEET NO.	

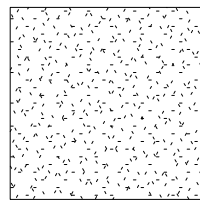




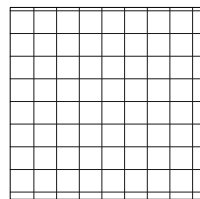
## CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.

- 1 GYP. BD. BULK HEAD @ 8' - 0"
- 2 CEILING TO REMAIN OPEN TO STRUCTURE.
- 3 APPLY SPRAY ON FIRE RESISTANT COATING TO STRUCTURE AND UNDERSIDE OF CONCRETE FLOOR DECK THE EXTENTS OF THIS ROOM PER UL DESIGN NO. G702 TO ACHIEVE A 2 HOUR FIRE RESISTANCE RATING.
- 4 5" CONCRETE DECK ABOVE THIS ROOM TO HAVE A 2 HOUR FIRE RESISTANCE EQUIVALENCY PER UL DESIGN NO. G702.



GYP. BD. SOFFIT



2X2 APC-1 CEILING

## FIRE BARRIER LEGEND

- |         |                          |
|---------|--------------------------|
| -----   | SMOKE RESISTIVE          |
| 1-----  | 1 HR. FIRE PARTITION     |
| 1S----- | 1 HR. FIRE/SMOKE BARRIER |
| 2-----  | 2 HR. FIRE BARRIER       |
| 2S----- | 2 HR. FIRE/SMOKE BARRIER |
| 3-----  | 3 HR. FIRE BARRIER       |

A

B

C

D

E

F

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CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT**  
**STATION 16**

4111 Kings Highway, Dayton, Ohio, 45406

### ISSUE

NO.	DATE	DESCRIPTION
1	08/01/25	FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2
2	11/11/2025	CODE REVISIONS

DATE	08/01/25
JOB NO.	4284.01
DRAWN	AEE
CHECKED	CMS/TJB

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TITLE  
**REFLECTED CEILING PLANS**

SHEET NO.

**A2.12**



11/10/2025 1:07:21 PM

A

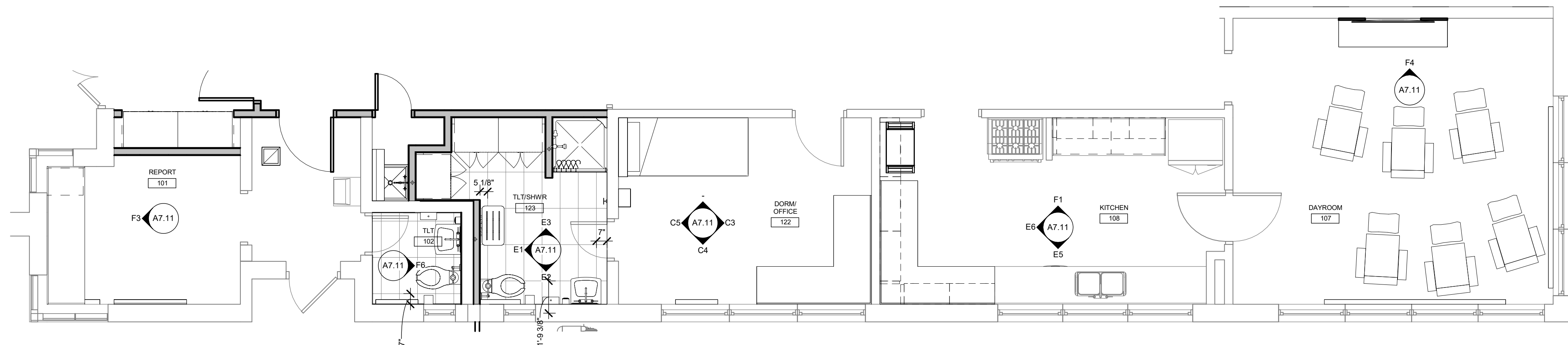
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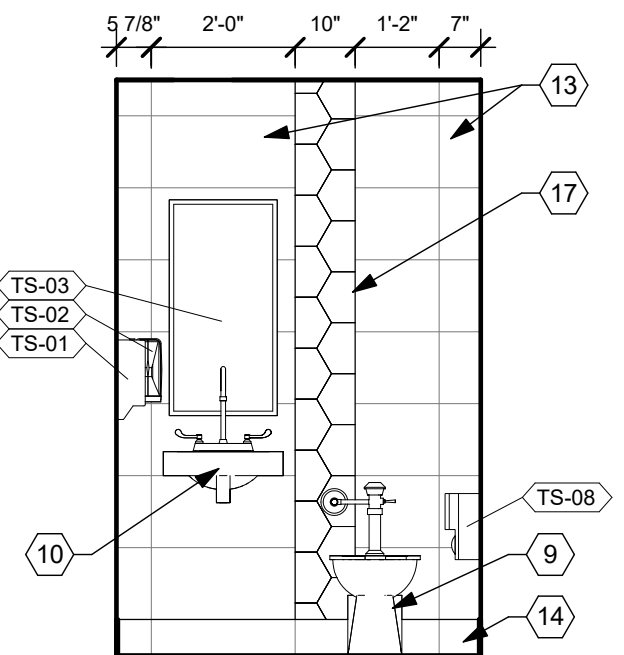
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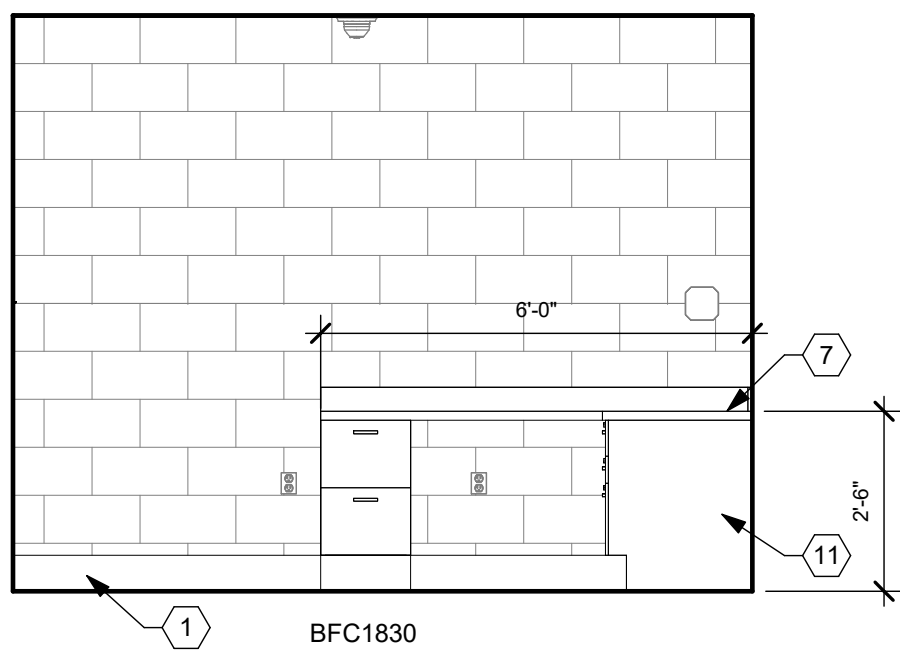
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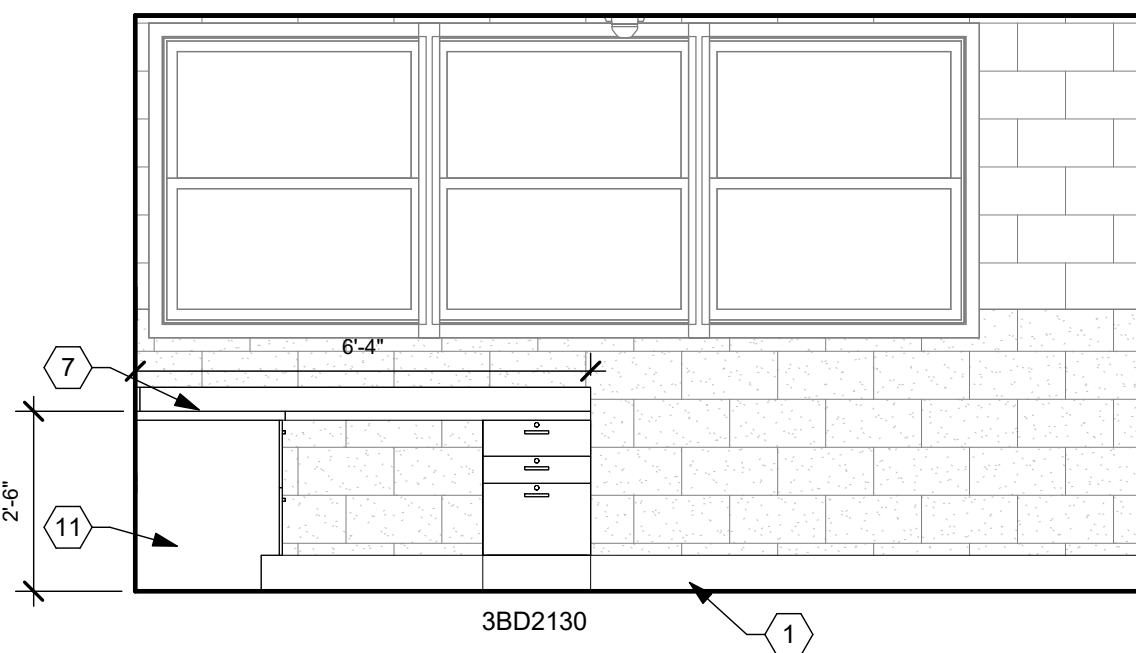
**B1** ENLARGED PARTIAL FLOOR PLAN A  
1/4" = 1'-0"



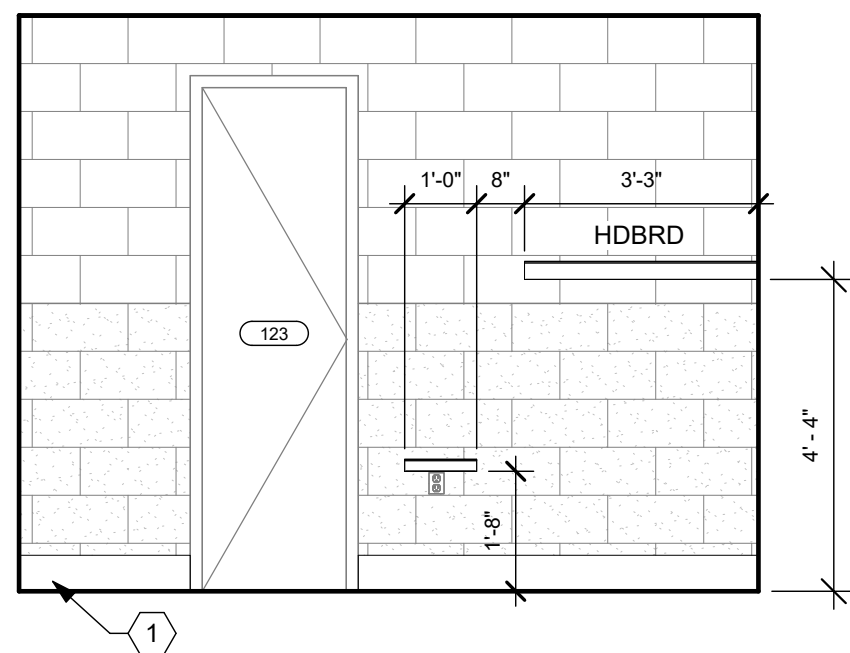
**F6** 102 TLT EAST  
3/8" = 1'-0"



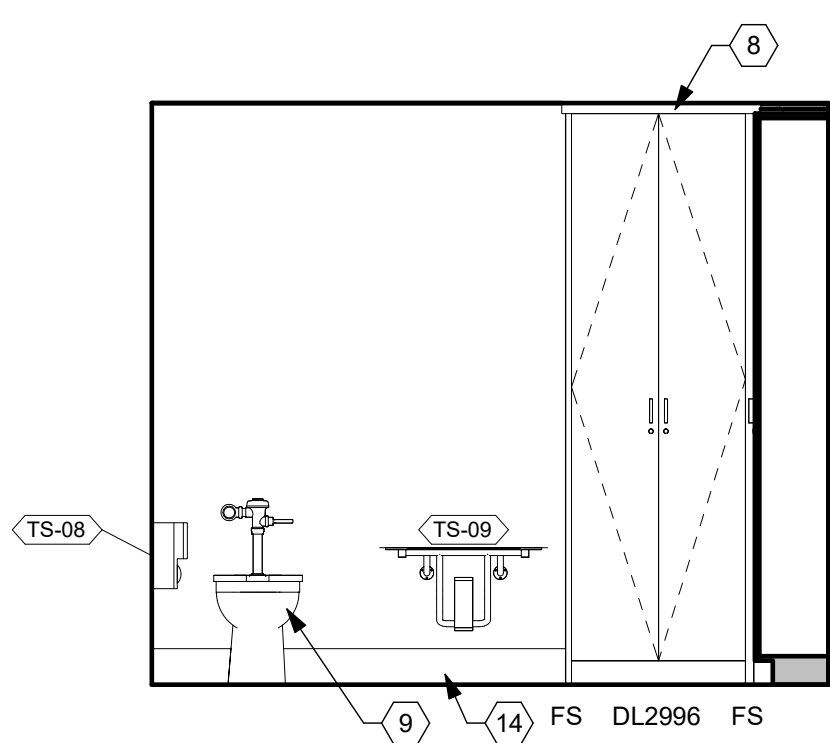
**C3** 122 DORM/ OFFICE EAST  
3/8" = 1'-0"



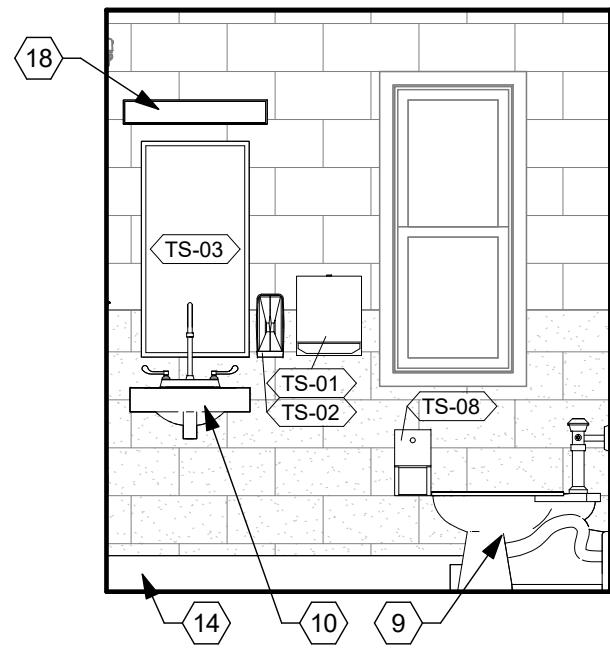
**C4** 122 DORM/ OFFICE SOUTH  
3/8" = 1'-0"



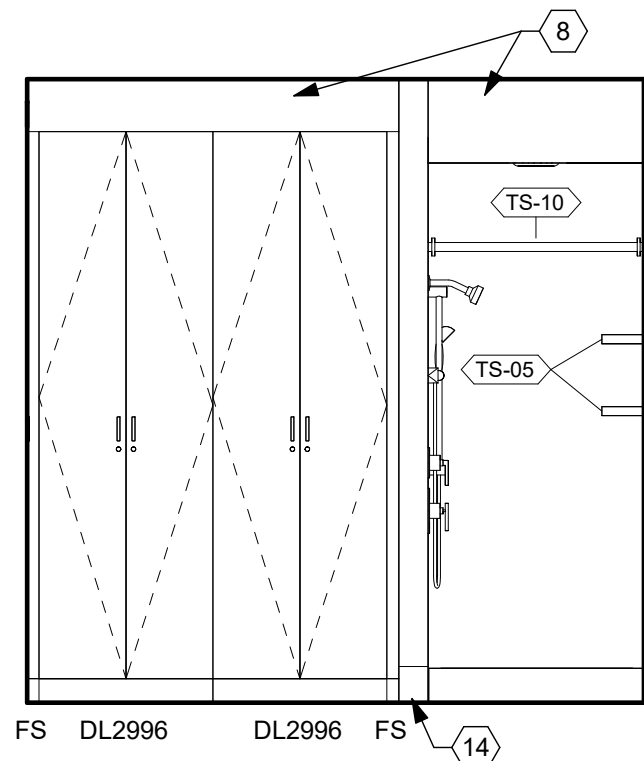
**C5** 122 DORM/ OFFICE WEST  
3/8" = 1'-0"



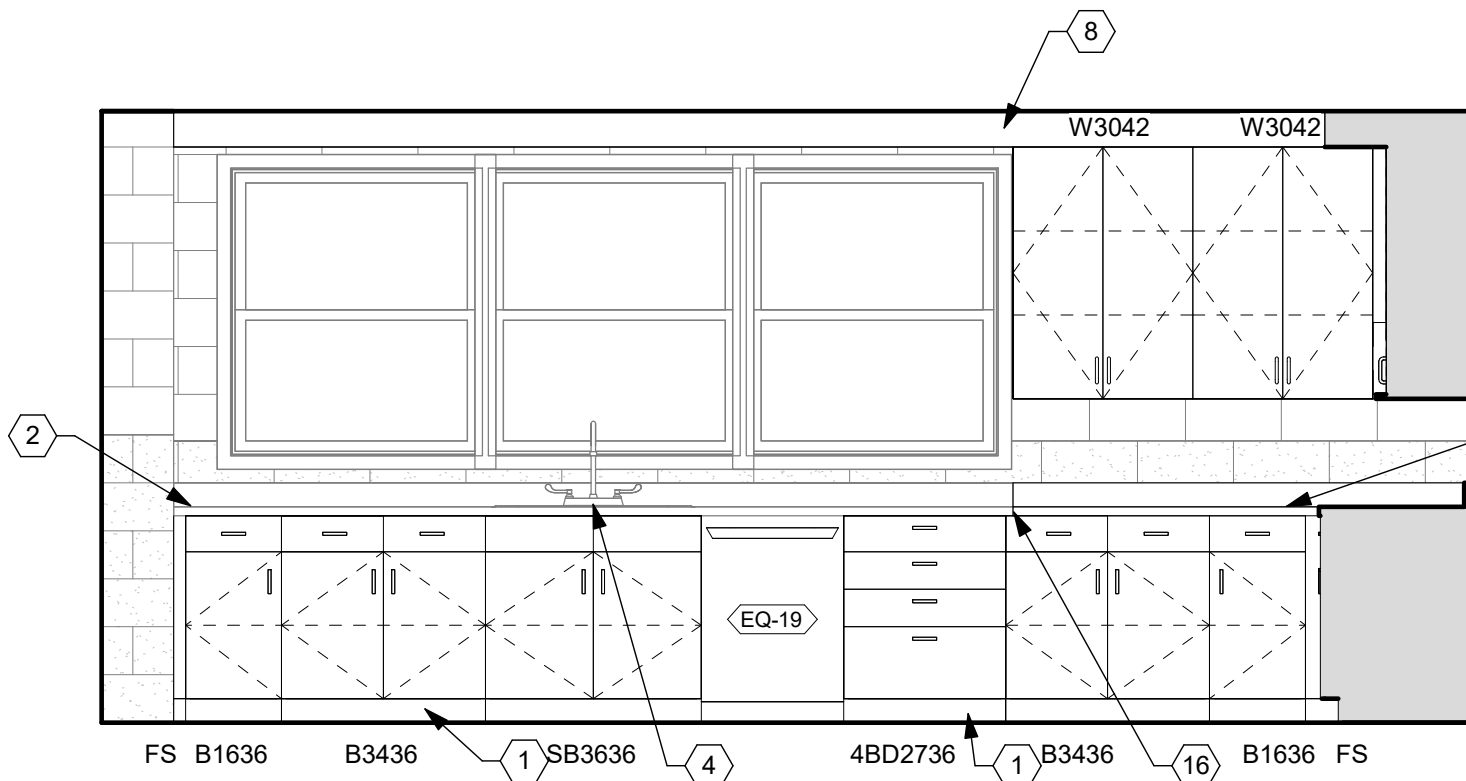
**E1** 123 TLT/SHWR WEST  
3/8" = 1'-0"



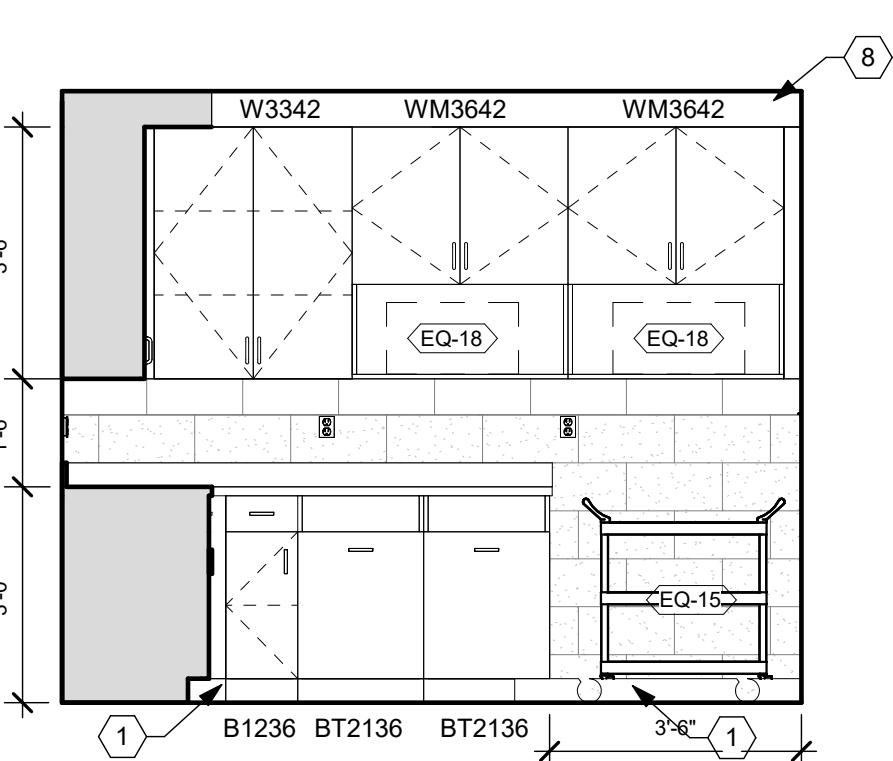
**E2** 123 TLT/SHWR SOUTH  
3/8" = 1'-0"



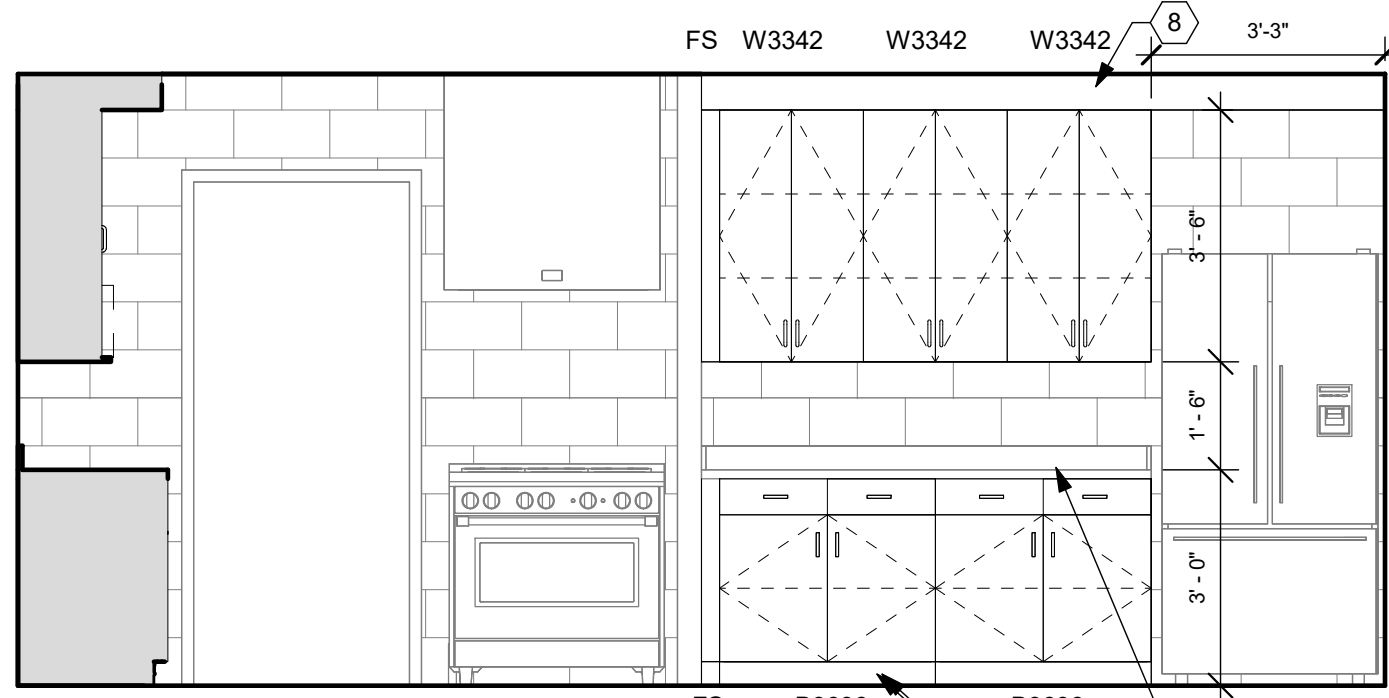
**E3** 123 TLT/SHWR NORTH  
3/8" = 1'-0"



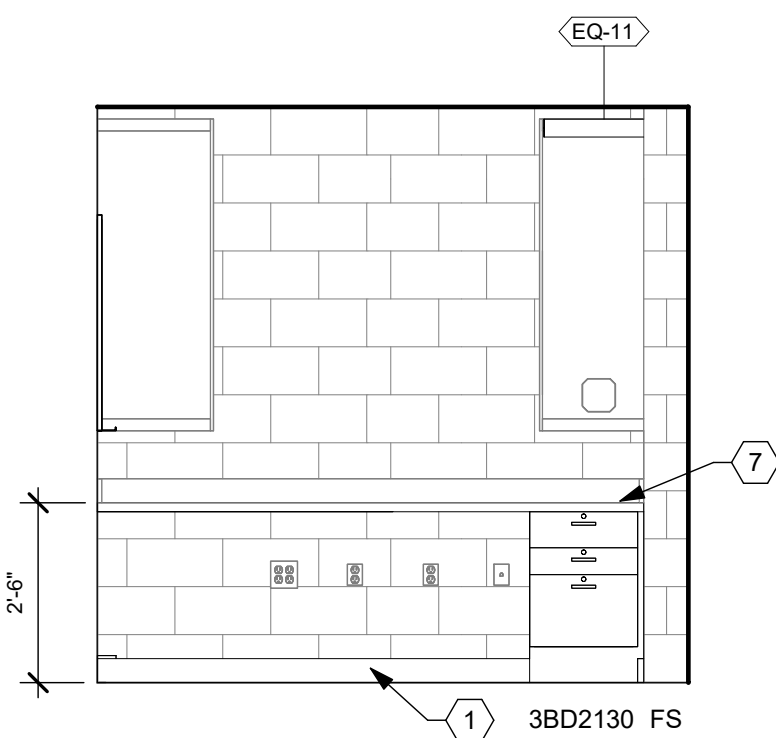
**E5** 108 KITCHEN SOUTH  
3/8" = 1'-0"



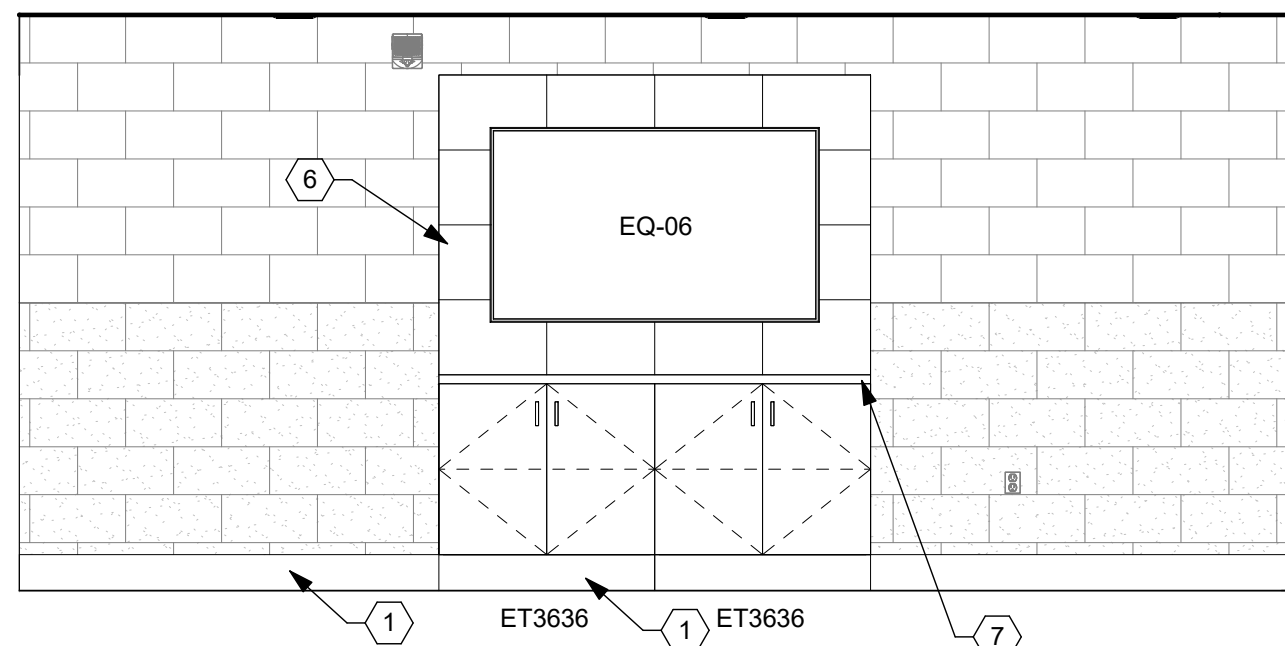
**E6** 108 KITCHEN WEST  
3/8" = 1'-0"



**F1** 108 KITCHEN NORTH  
3/8" = 1'-0"



**F3** 101 REPORT WEST  
3/8" = 1'-0"



**F4** 107 DAYROOM NORTH  
3/8" = 1'-0"

## CONSTRUCTION NOTES

(00) INDICATES CONSTRUCTION NOTE.  
NOT ALL NOTES USED THIS SHEET.

- WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
- EXISTING STAINLESS STEEL COUNTERTOP AND BACKPLASH.
- STAINLESS STEEL COUNTERTOP AND BACKPLASH. MATCH EXISTING COUNTER.
- EXISTING SINK. REFER TO PLUMBING DRAWINGS.
- VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE FOR HEIGHT AND TYPE.
- WALL-HUNG TV CASEWORK. REFER TO SHEET A8.03 FOR DETAILS.
- PLASTIC LAMINATE COUNTERTOP. (PL-2)
- GYPSUM BOARD SOFFIT.
- TOILET. REFER TO PLUMBING DRAWINGS.
- SINK. REFER TO PLUMBING DRAWINGS.
- PLASTIC LAMINATE FINISHED END. (PL-1)
- ADJUSTABLE SHELVING (ADJS). REFER TO A8.01 FOR DETAILS.
- PORCELAIN WALL TILE. (PTW-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- PORCELAIN TILE WALL BASE. (PTWB-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
- 3" RADIUS DESK (DSK) CORNER.
- WELD EXISTING STAINLESS STEEL COUNTER TO NEW STAINLESS STEEL COUNTER. SMOOTH AND POLISH WELDED SURFACE.
- PORCELAIN WALL TILE. (PTW-2)
- LIGHT. REFER TO ELECTRICAL DRAWINGS.

## GENERAL NOTES

THESE NOTES APPLY TO ALL INTERIOR ELEVATION SHEETS.

EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.

**ALL PLASTIC LAMINATE BASE, WALL & TALL CABINETS TO BE (PL-1) U.N.O.**

**ALL CASEWORK COUNTERTOPS TO BE SOLID SURFACE (SS-1) UNLESS NOTED OTHERWISE.**

PROVIDE MIN. 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.

INSTALL SOLID WOOD (FIRE-TREATED) (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALLMOUNTED ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, ETC.

REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS. NOT ALL ELECTRICAL DEVICES ARE SHOWN ON ELEVATIONS.

SEE SHEETS A8.0 SERIES FOR TYPICAL CABINET SECTIONS AND DETAILS.

ALL OUTSIDE CORNERS OF SOLID SURFACE COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.

SEE SHEET A7.1 FOR ACCESSORY SCHEDULE. NOT EVERY ITEM SHOWN IS LABELED. LABEL IS "TYPICAL" OF OTHERS SHOWN. COORDINATE FINAL POSITION WITH OWNER.

DESIGNATION (XX-X) REFERS TO FINISHES. REFER TO SPECIFICATIONS DIVISION 09 AND SHEET A0.2 & A0.3 FOR FINISH DESCRIPTIONS AND ABBREVIATIONS.

ALL COUNTERTOPS 25" DEEP U.N.O.

ALL EXPOSED END PANELS IN CASEWORK TO RECEIVE SAME PLASTIC LAMINATE FINISH AS FRONT SURFACES.

ALL INTERIOR WALLS TO HAVE A WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.

REFER TO SHEET A0.1 FOR TYPICAL MOUNTING HEIGHT DIMENSIONS.

CASEWORK TYPES (PREFIX) ABBREVIATIONS:

SADA - "ADA" SINK BASE  
B - BASE CABINET  
4DB - 4 DOOR BASE CABINET  
BFC - BASE FILE CABINET  
SB - SINK BASE  
OB - OPEN SHELF CABINET  
W - WALL CABINET  
WM - WALL MICROWAVE CABINET  
OW - OPEN SHELF WALL CABINET  
FC - FILE CABINET  
LFC - LATERAL FILE CABINET  
TC - TALL CABINET  
PC - PANTRY CABINET  
DL - DORM LOCKER

A

B

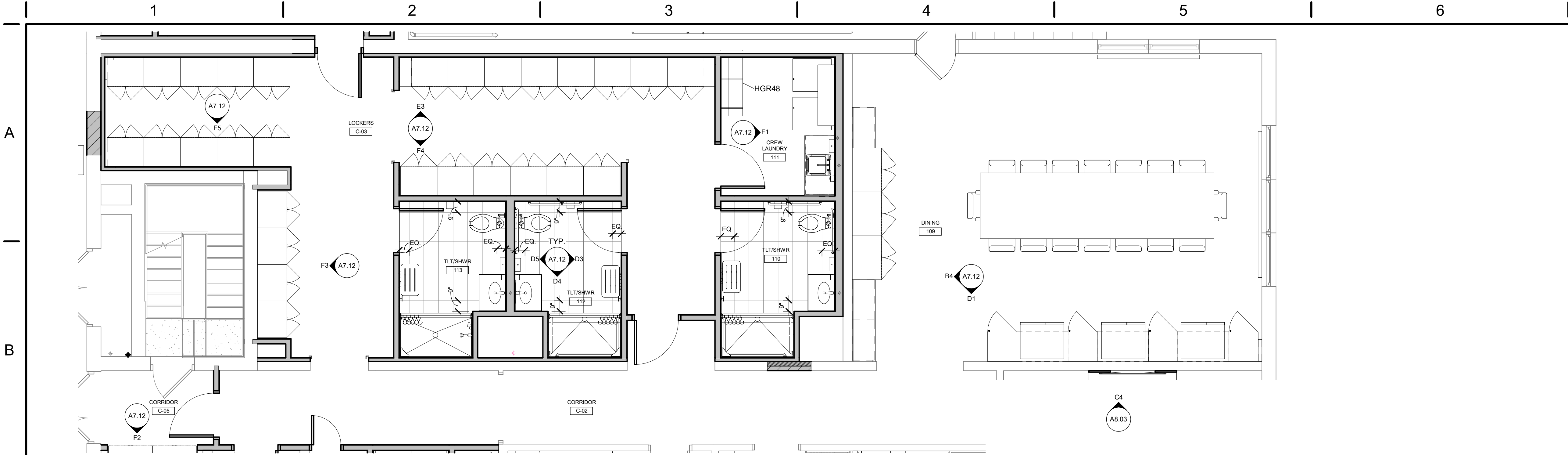
C

D

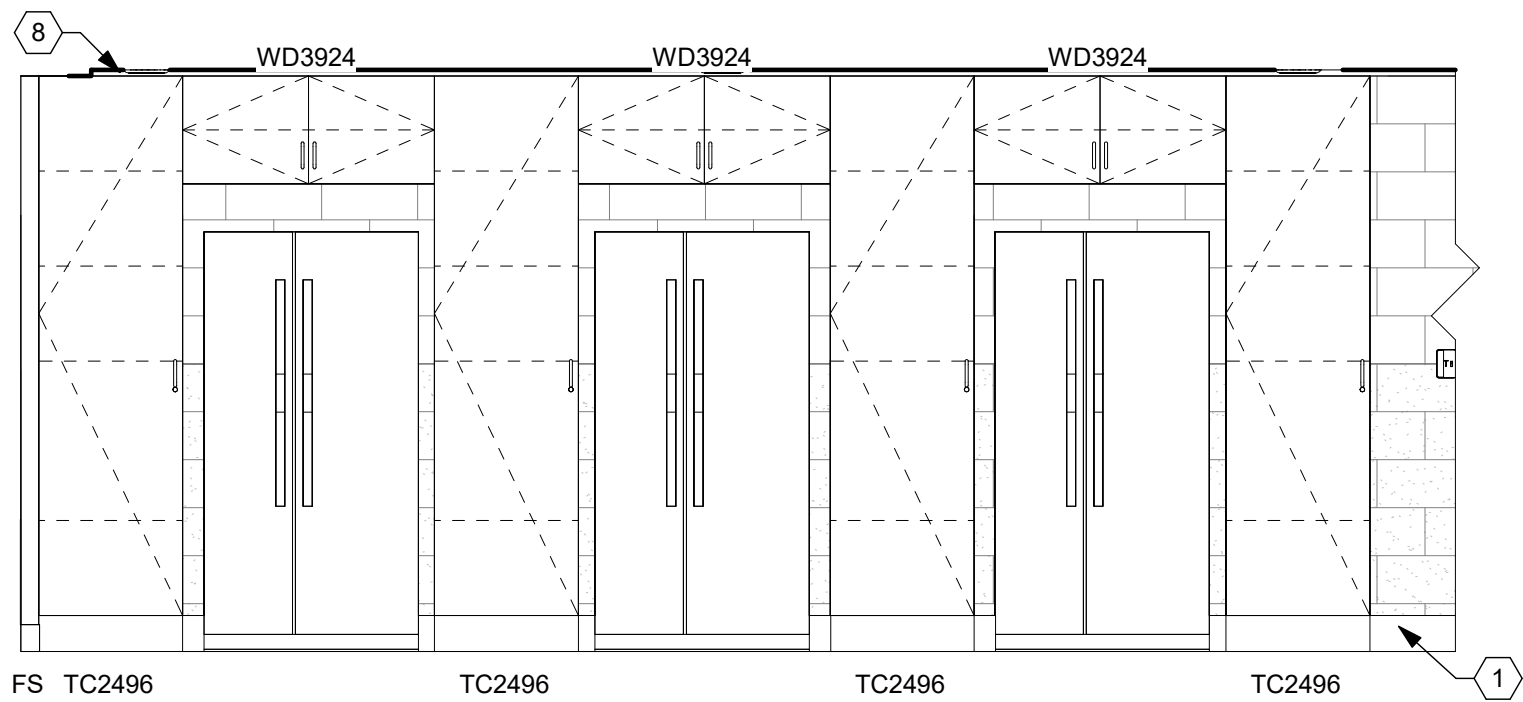
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F

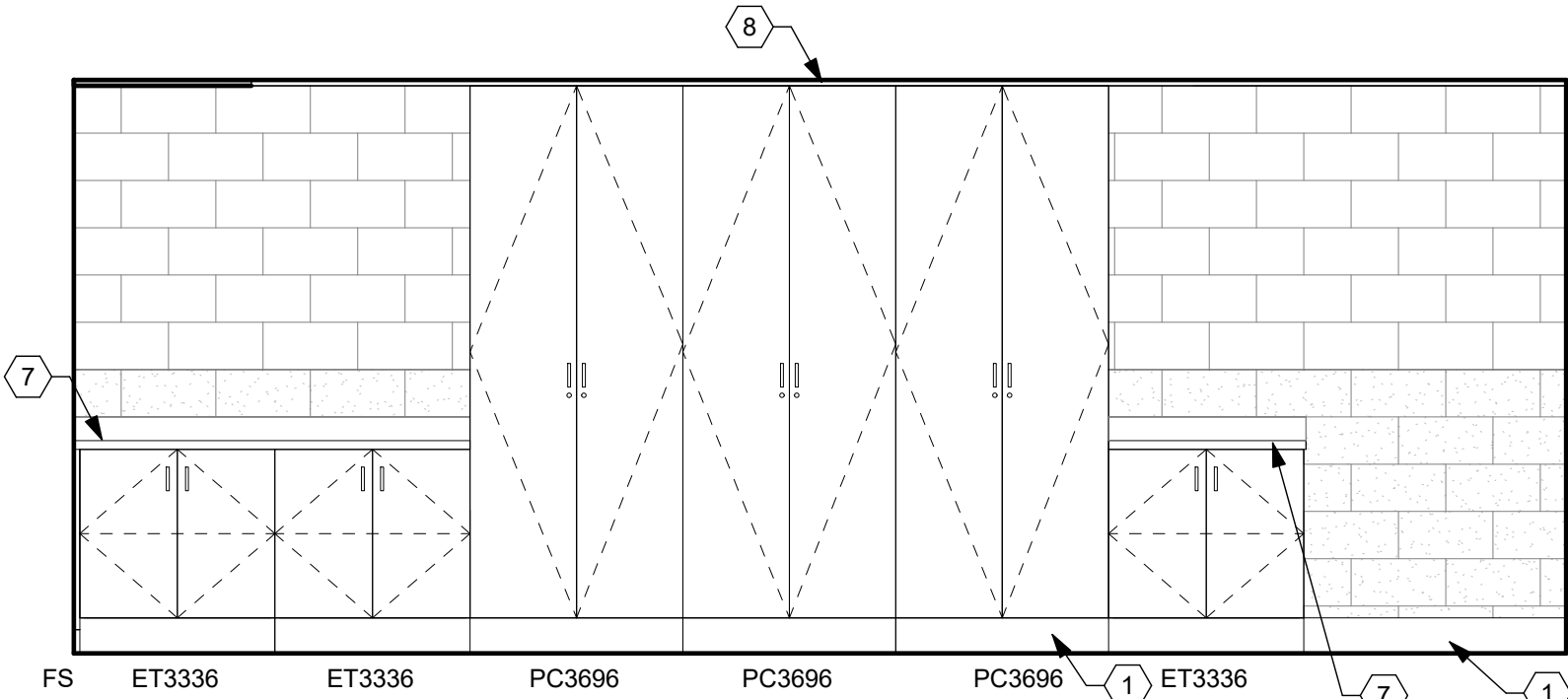




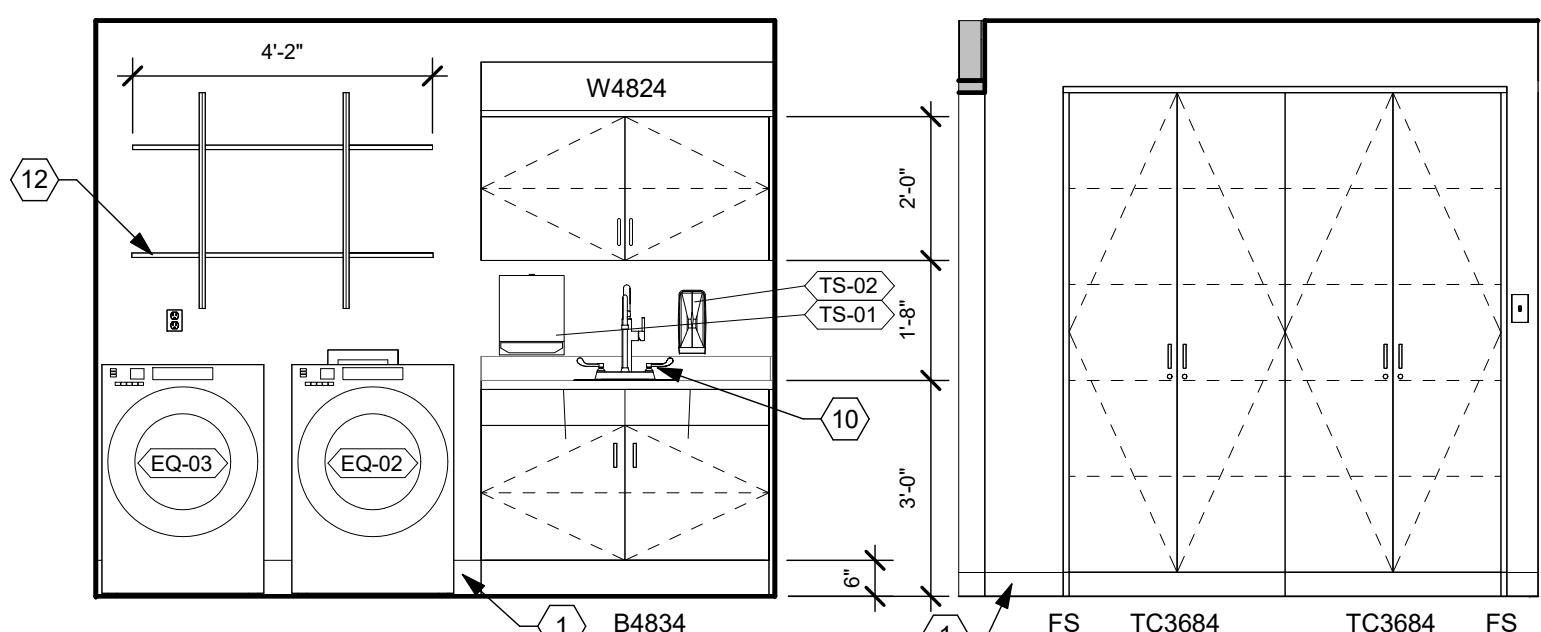
**B1 ENLARGED PARTIAL FLOOR PLAN B**  
1/4" = 1'-0"



**D1 109 DINING SOUTH**  
3/8" = 1'-0"

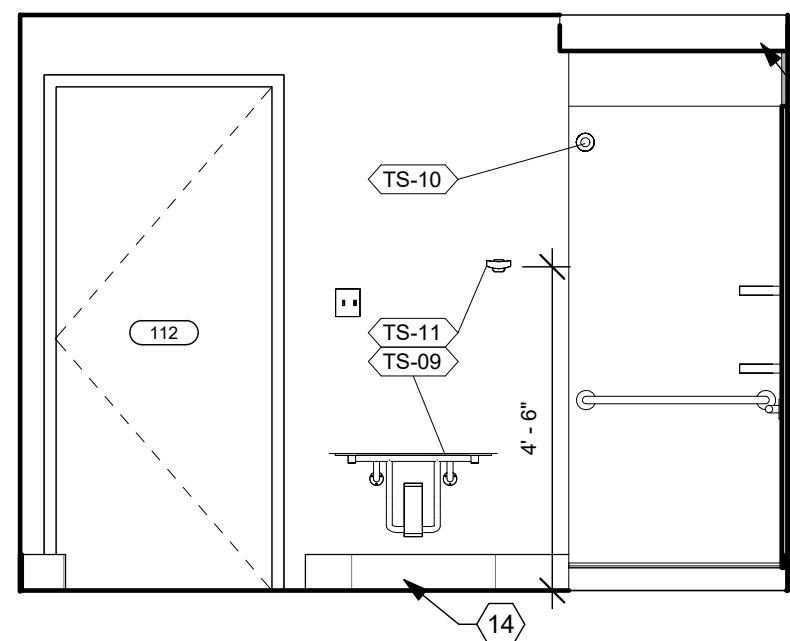


**B4 109 DINING WEST**  
3/8" = 1'-0"

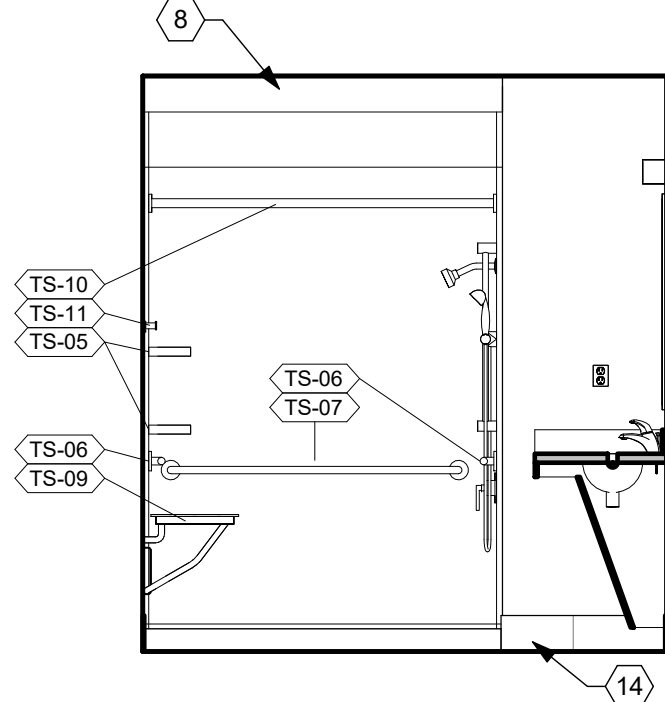


**F1 111 CREW LAUNDRY EAST**  
3/8" = 1'-0"

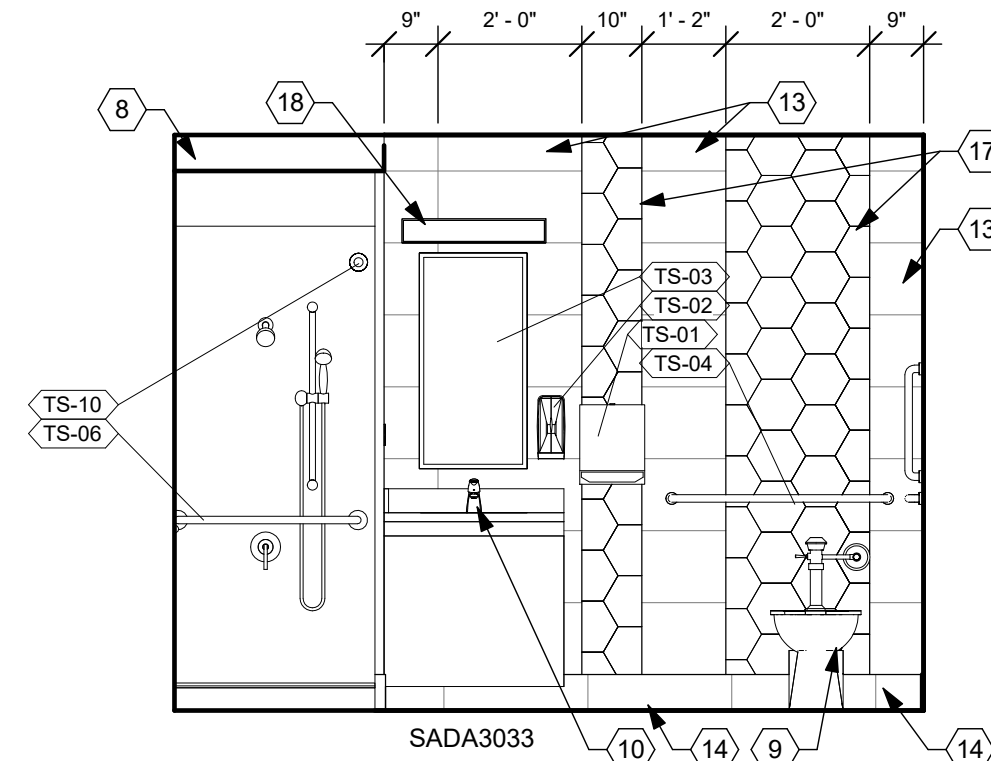
**F2 C-05 DORRIDOR SOUTH**  
3/8" = 1'-0"



**D3 112 TLT/SHWR EAST**  
3/8" = 1'-0"

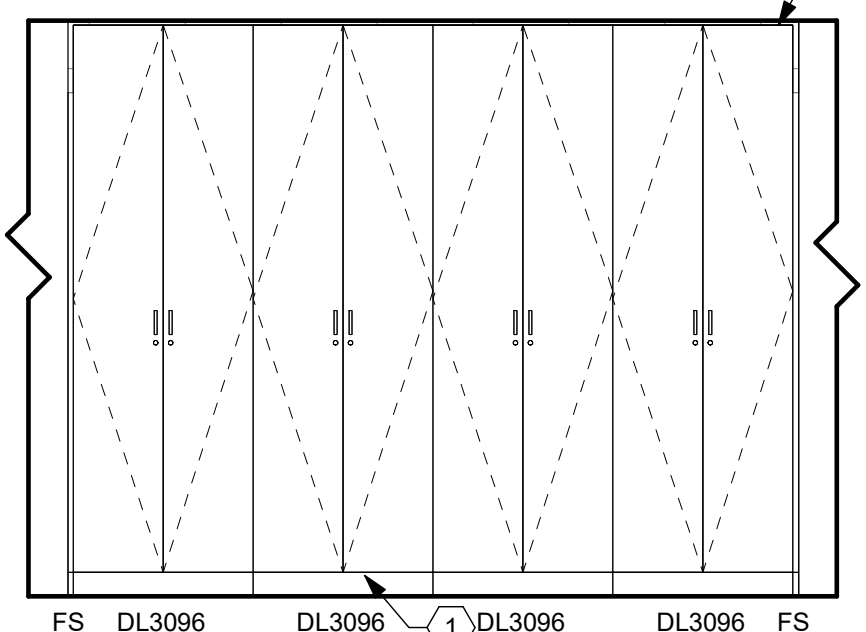


**D4 112 TLT/SHWR SOUTH**  
3/8" = 1'-0"

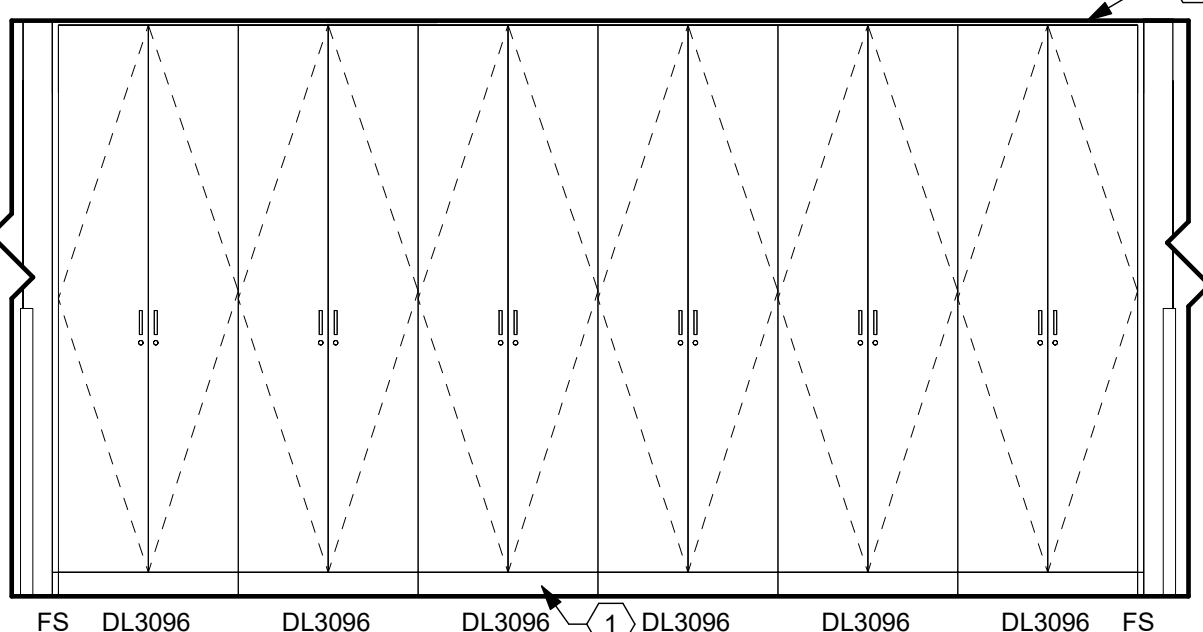


**D5 112 TLT/SHWR WEST**  
3/8" = 1'-0"

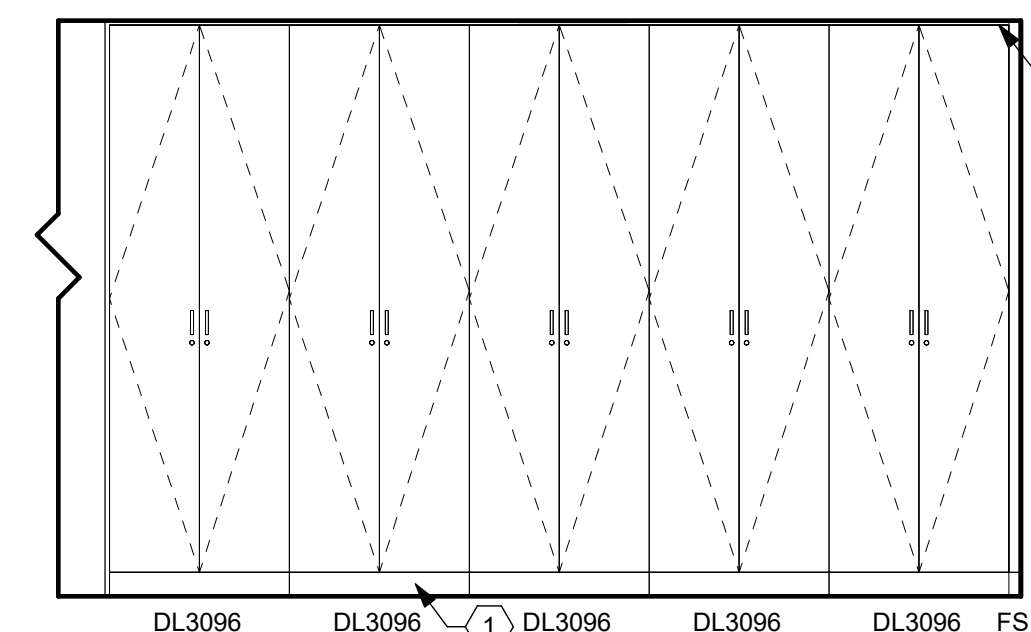
**E3 C-03 LOCKERS NORTH**  
3/8" = 1'-0"



**F3 C-03 LOCKERS WEST**  
3/8" = 1'-0"



**F4 C-03 LOCKERS SOUTH A**  
3/8" = 1'-0"



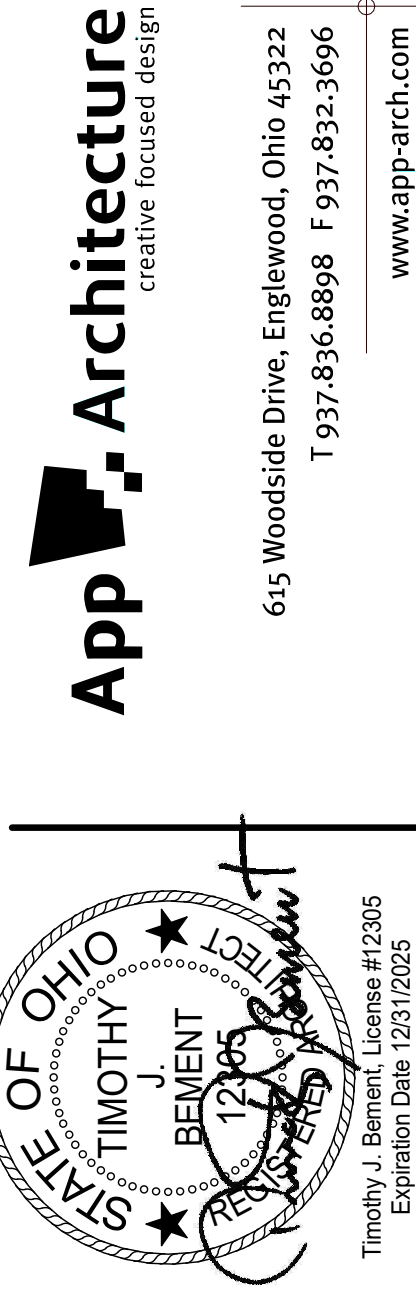
**F5 C-03 LOCKERS SOUTH B**  
3/8" = 1'-0"

## CONSTRUCTION NOTES

- 00 INDICATES CONSTRUCTION NOTE. NOT ALL NOTES USED THIS SHEET.
- WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
  - EXISTING STAINLESS STEEL COUNTERTOP AND BACKSPLASH.
  - STAINLESS STEEL COUNTERTOP AND BACKSPLASH. MATCH EXISTING COUNTER.
  - EXISTING SINK. REFER TO PLUMBING DRAWINGS.
  - VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE FOR HEIGHT AND TYPE.
  - WALL-HUNG TV CASEWORK. REFER TO SHEET A8.03 FOR DETAILS.
  - PLASTIC LAMINATE COUNTERTOP. (PL-2)
  - GYPSUM BOARD SOFFIT.
  - TOILET. REFER TO PLUMBING DRAWINGS.
  - SINK. REFER TO PLUMBING DRAWINGS.
  - PLASTIC LAMINATE FINISHED END. (PL-1)
  - ADJUSTABLE SHELVING (ADJS). REFER TO A8.01 FOR DETAILS.
  - PORCELAIN WALL TILE. (PTW-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
  - PORCELAIN TILE WALL BASE. (PTWB-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
  - 3" RADIUS DESK (DSK) CORNER.
  - WELD EXISTING STAINLESS STEEL COUNTER TO NEW STAINLESS STEEL COUNTER. SMOOTH AND POLISH WELDED SURFACE.
  - PORCELAIN WALL TILE. (PTW-2)
  - LIGHT. REFER TO ELECTRICAL DRAWINGS.

## GENERAL NOTES

- THESE NOTES APPLY TO ALL INTERIOR ELEVATION SHEETS.
- EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.
- ALL PLASTIC LAMINATE BASE, WALL & TALL CABINETS TO BE (PL-1) U.N.O.**
- ALL CASEWORK COUNTERTOPS TO BE SOLID SURFACE (SS-1) UNLESS NOTED OTHERWISE.**
- PROVIDE MIN. 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.
- INSTALL SOLID WOOD (FIRE-TREATED) (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALLMOUNTED ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, ETC.
- REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS. NOT ALL ELECTRICAL DEVICES ARE SHOWN ON ELEVATIONS.
- SEE SHEETS A8.0 SERIES FOR TYPICAL CABINET SECTIONS AND DETAILS.
- ALL OUTSIDE CORNERS OF SOLID SURFACE COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.
- SEE SHEET A7.1 FOR ACCESSORY SCHEDULE. NOT EVERY ITEM SHOWN IS LABELED. LABEL IS "TYPICAL" OF OTHERS SHOWN. COORDINATE FINAL POSITION WITH OWNER.
- DESIGNATION (XX-X) REFERS TO FINISHES. REFER TO SPECIFICATIONS DIVISION 09 AND SHEET A0.2 & A0.3 FOR FINISH DESCRIPTIONS AND ABBREVIATIONS.
- ALL COUNTERTOPS 25" DEEP U.N.O.
- ALL EXPOSED END PANELS IN CASEWORK TO RECEIVE SAME PLASTIC LAMINATE FINISH AS FRONT SURFACES.
- ALL INTERIOR WALLS TO HAVE A WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
- REFER TO SHEET A0.1 FOR TYPICAL MOUNTING HEIGHT DIMENSIONS.
- CASEWORK TYPES (PREFIX) ABBREVIATIONS:
- SADA - "ADA" SINK BASE
  - B - BASE CABINET
  - 4DB - 4 DOOR BASE CABINET
  - BFC - BASE FILE CABINET
  - SB - SINK BASE
  - OB - OPEN SHELF CABINET
  - W - WALL CABINET
  - WM - WALL MICROWAVE CABINET
  - OW - OPEN SHELF WALL CABINET
  - FC - FILE CABINET
  - LFC - LATERAL FILE CABINET
  - TC - TALL CABINET
  - PC - PANTRY CABINET
  - DL - DORM LOCKER



## CITY OF DAYTON DAYTON FIRE DEPARTMENT STATION 16

4111 Kings Highway, Dayton, Ohio, 45406

ISSUE		
NO.	DATE	DESCRIPTION
	08/01/25	FOR CONSTRUCTION

DATE	08/01/25
JOB NO.	4284.01
DRAWN	AEE
CHECKED	CMS/TJB

TITLE  
**INTERIOR ELEVATIONS**

SHEET NO.  
**A7.12**



A

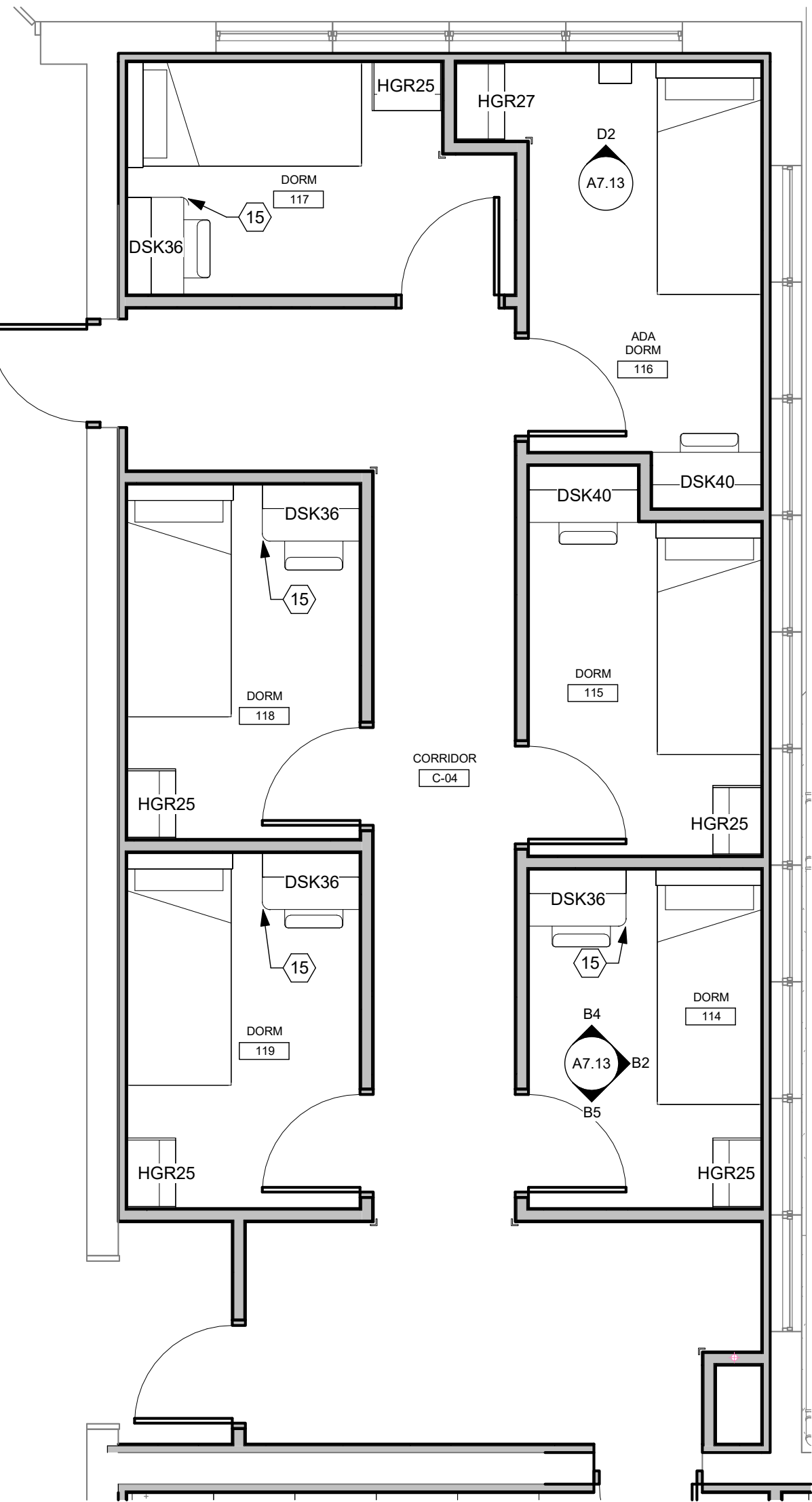
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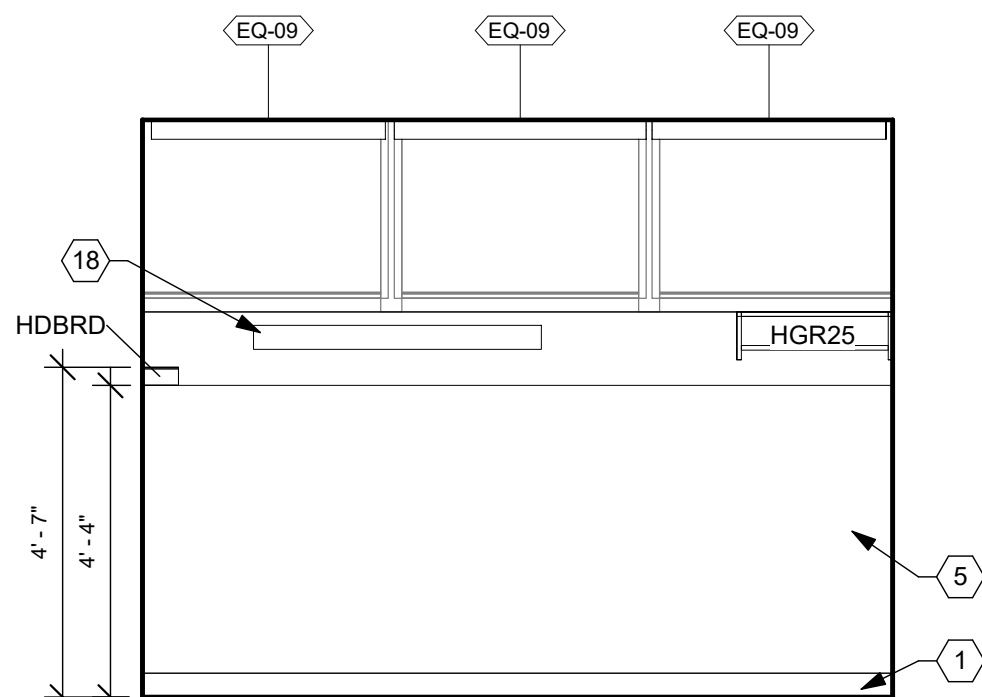
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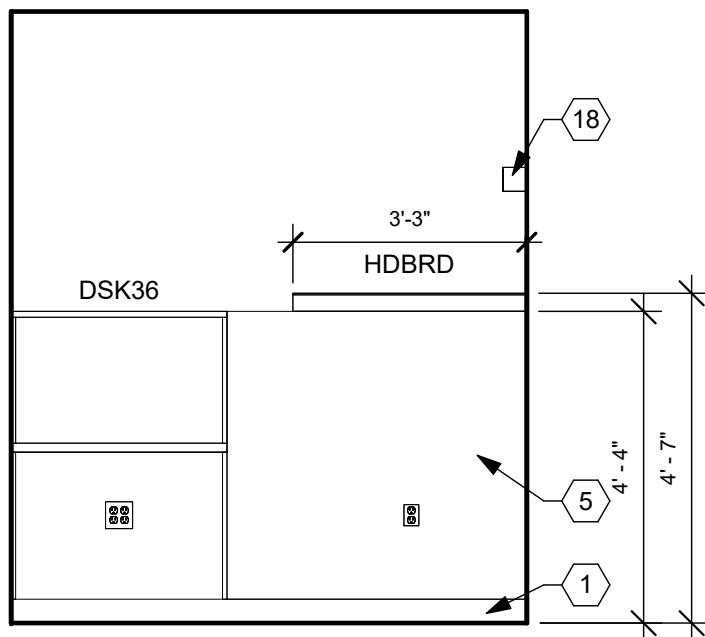
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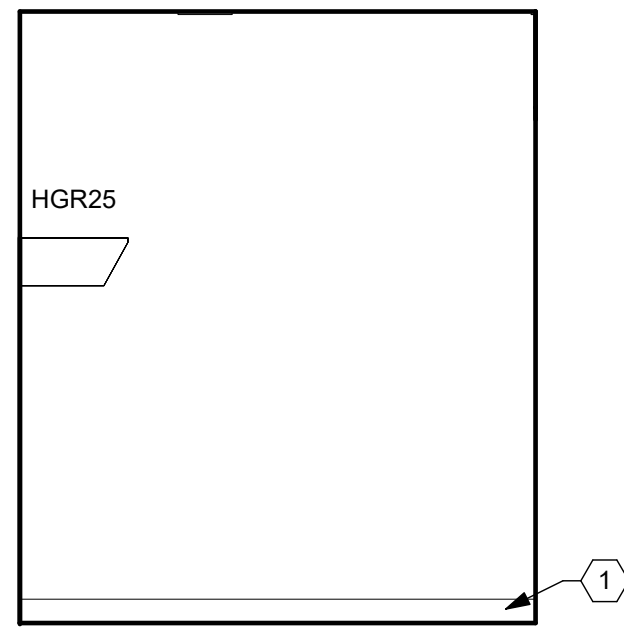
D1 ENLARGED PARTIAL FLOOR PLAN C  
1/4" = 1'-0"



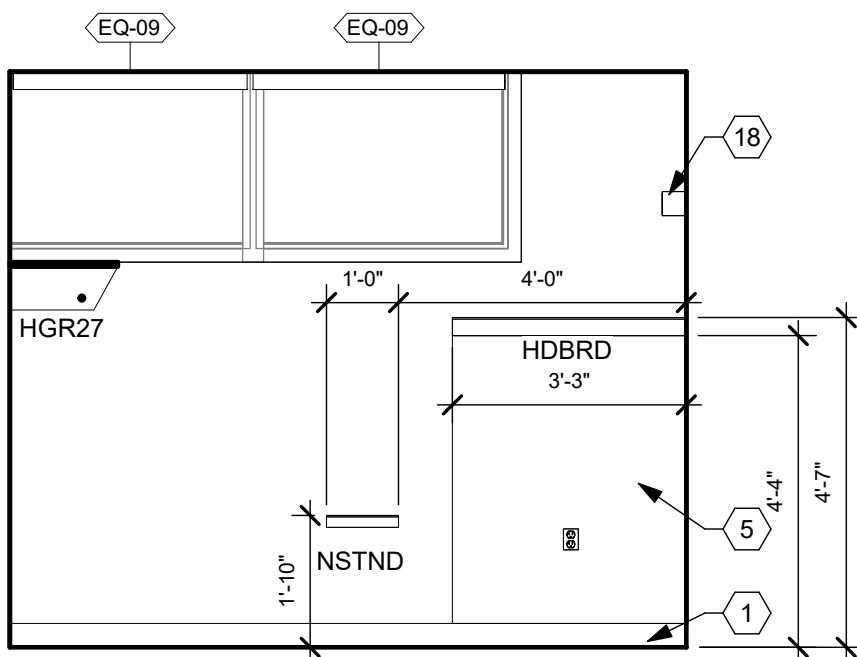
B2 114 DORM EAST  
3/8" = 1'-0"



B4 114 DORM NORTH  
3/8" = 1'-0"



B5 114 DORM SOUTH  
3/8" = 1'-0"



D2 116 ADA DORM NORTH  
3/8" = 1'-0"

## CONSTRUCTION NOTES

- (00) INDICATES CONSTRUCTION NOTE. NOT ALL NOTES USED THIS SHEET.
- WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.
  - EXISTING STAINLESS STEEL COUNTERTOP AND BACKSPLASH.
  - STAINLESS STEEL COUNTERTOP AND BACKSPLASH. MATCH EXISTING COUNTER.
  - EXISTING SINK. REFER TO PLUMBING DRAWINGS.
  - VINYL WALL PROTECTION. REFER TO FINISH SCHEDULE FOR HEIGHT AND TYPE.
  - WALL-HUNG TV CASEWORK. REFER TO SHEET A8.03 FOR DETAILS.
  - PLASTIC LAMINATE COUNTERTOP. (PL-2)
  - GYPSUM BOARD SOFFIT.
  - TOILET. REFER TO PLUMBING DRAWINGS.
  - SINK. REFER TO PLUMBING DRAWINGS.
  - PLASTIC LAMINATE FINISHED END. (PL-1)
  - ADJUSTABLE SHELVING (ADJS). REFER TO A8.01 FOR DETAILS.
  - PORCELAIN WALL TILE. (PTW-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
  - PORCELAIN TILE WALL BASE. (PTWB-1) ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
  - 3" RADIUS DESK (DSK) CORNER.
  - WELD EXISTING STAINLESS STEEL COUNTER TO NEW STAINLESS STEEL COUNTER. SMOOTH AND POLISH WELDED SURFACE.
  - PORCELAIN WALL TILE. (PTW-2)
  - LIGHT. REFER TO ELECTRICAL DRAWINGS.

## GENERAL NOTES

THESE NOTES APPLY TO ALL INTERIOR ELEVATION SHEETS.

EXAMPLE OF CASEWORK DIMENSIONS (2436) INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.

**ALL PLASTIC LAMINATE BASE, WALL & TALL CABINETS TO BE (PL-1) U.N.O.**

**ALL CASEWORK COUNTERTOPS TO BE SOLID SURFACE (SS-1) UNLESS NOTED OTHERWISE.**

PROVIDE MIN. 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL CABINETS.

INSTALL SOLID WOOD (FIRE-TREATED) (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALLMOUNTED ITEMS INCLUDING CASEWORK, RAILINGS, TOILET ACCESSORIES, ETC.

REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS. NOT ALL ELECTRICAL DEVICES ARE SHOWN ON ELEVATIONS.

SEE SHEETS A8.0 SERIES FOR TYPICAL CABINET SECTIONS AND DETAILS.

ALL OUTSIDE CORNERS OF SOLID SURFACE COUNTERTOPS SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.

SEE SHEET A7.1 FOR ACCESSORY SCHEDULE. NOT EVERY ITEM SHOWN IS LABELED. LABEL IS "TYPICAL" OF OTHERS SHOWN. COORDINATE FINAL POSITION WITH OWNER.

DESIGNATION (XX-X) REFERS TO FINISHES. REFER TO SPECIFICATIONS DIVISION 09 AND SHEET A0.2 & A0.3 FOR FINISH DESCRIPTIONS AND ABBREVIATIONS.

ALL COUNTERTOPS 25" DEEP U.N.O.

ALL EXPOSED END PANELS IN CASEWORK TO RECEIVE SAME PLASTIC LAMINATE FINISH AS FRONT SURFACES.

ALL INTERIOR WALLS TO HAVE A WALL BASE. REFER TO FINISH SCHEDULE FOR TYPE.

REFER TO SHEET A0.1 FOR TYPICAL MOUNTING HEIGHT DIMENSIONS.

CASEWORK TYPES (PREFIX) ABBREVIATIONS:

SADA - "ADA" SINK BASE  
B - BASE CABINET  
4DB - 4 DOOR BASE CABINET  
BFC - BASE FILE CABINET  
SB - SINK BASE  
OB - OPEN SHELF CABINET  
W - WALL CABINET  
WM - WALL MICROWAVE CABINET  
OW - OPEN SHELF WALL CABINET  
FC - FILE CABINET  
LFC - LATERAL FILE CABINET  
TC - TALL CABINET  
PC - PANTRY CABINET  
DL - DORM LOCKER

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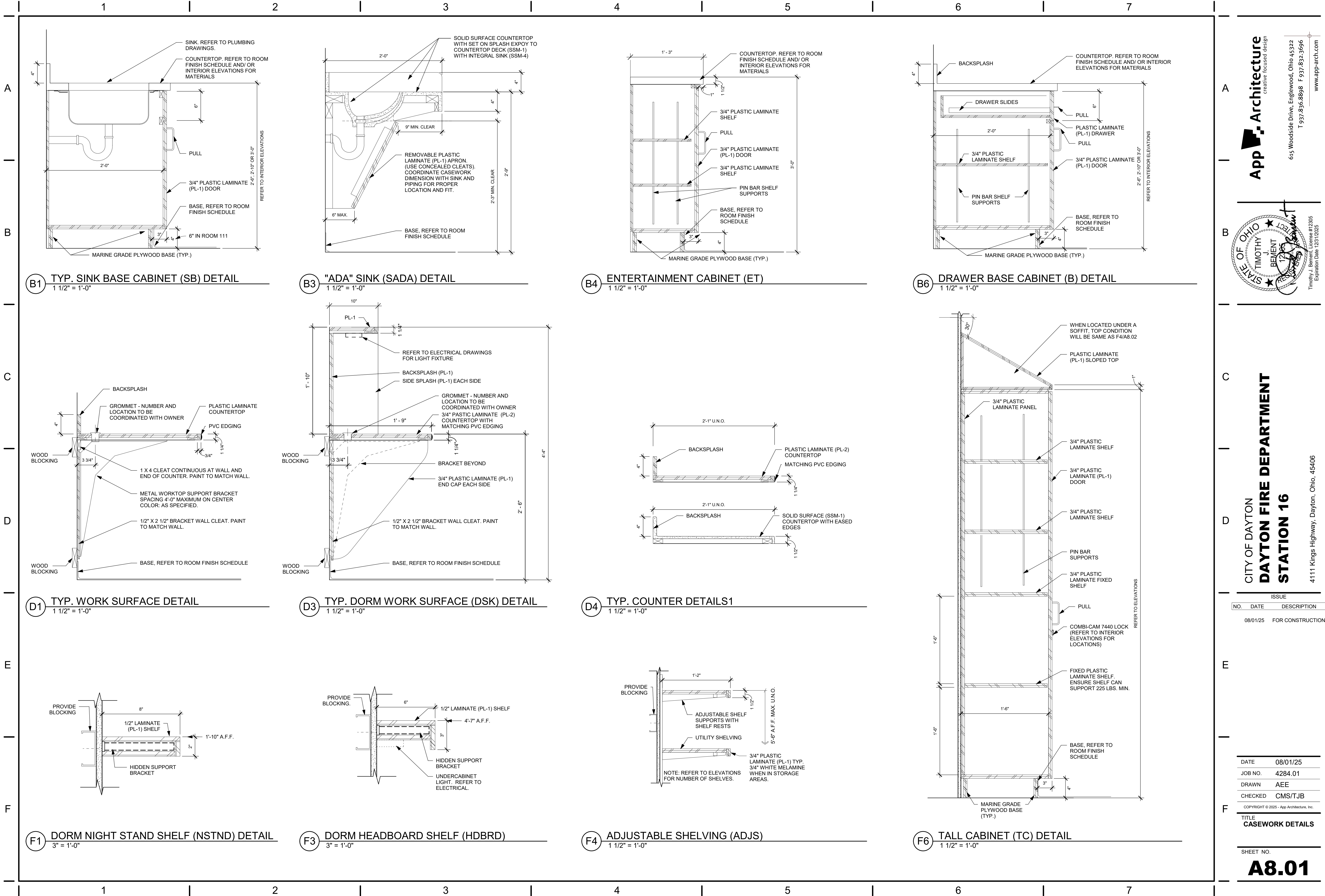
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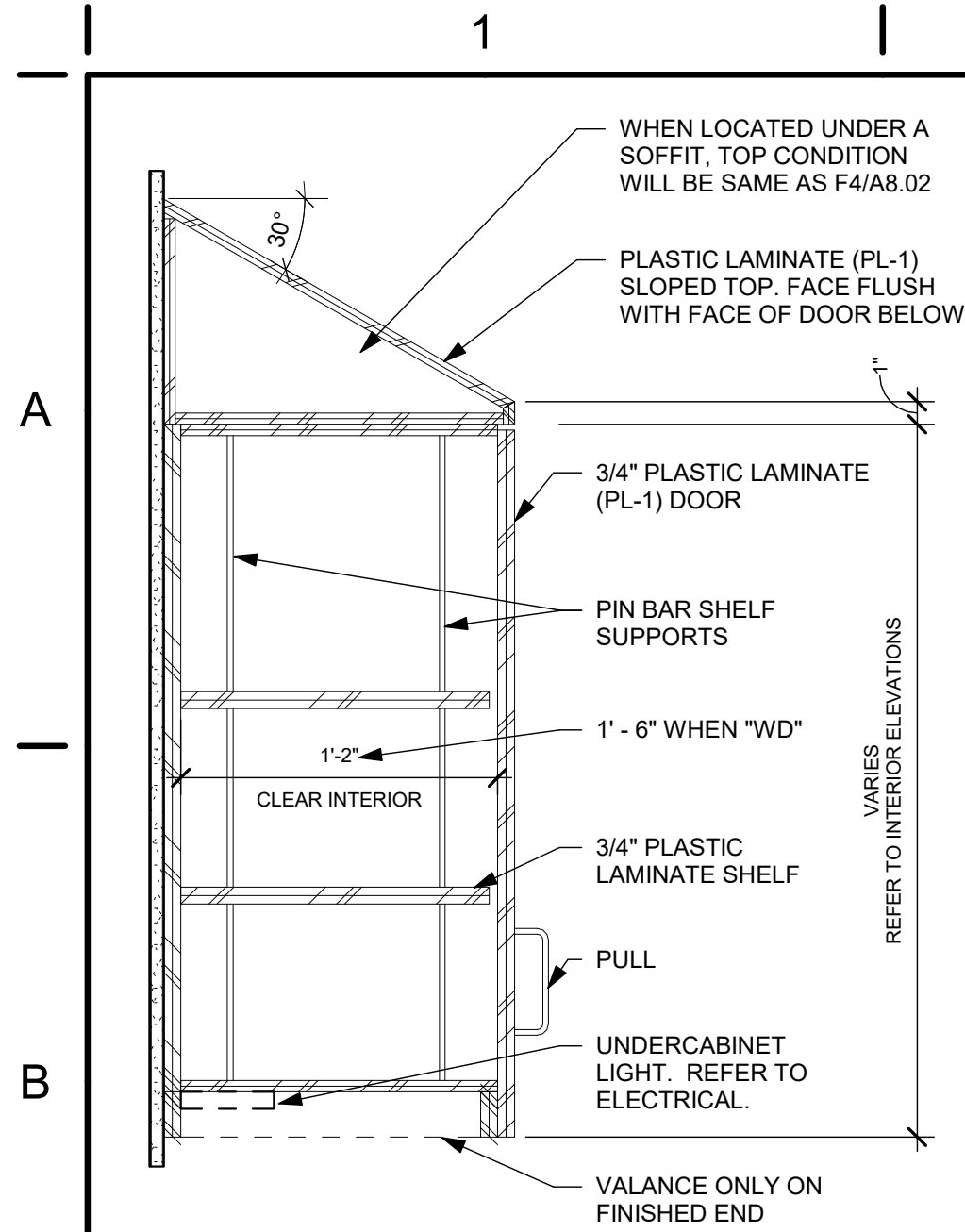
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TITLE  
**INTERIOR ELEVATIONS**

SHEET NO.  
**A7.13**

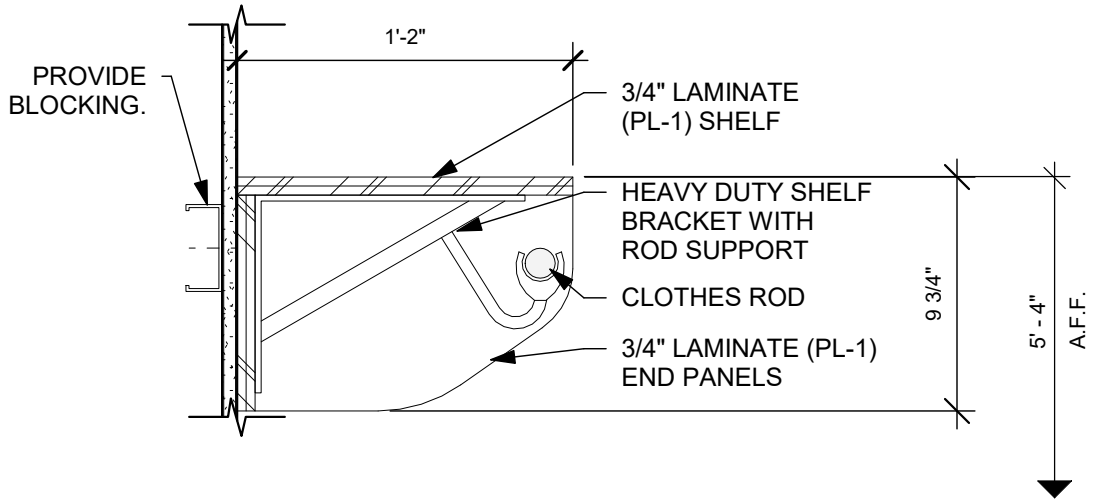




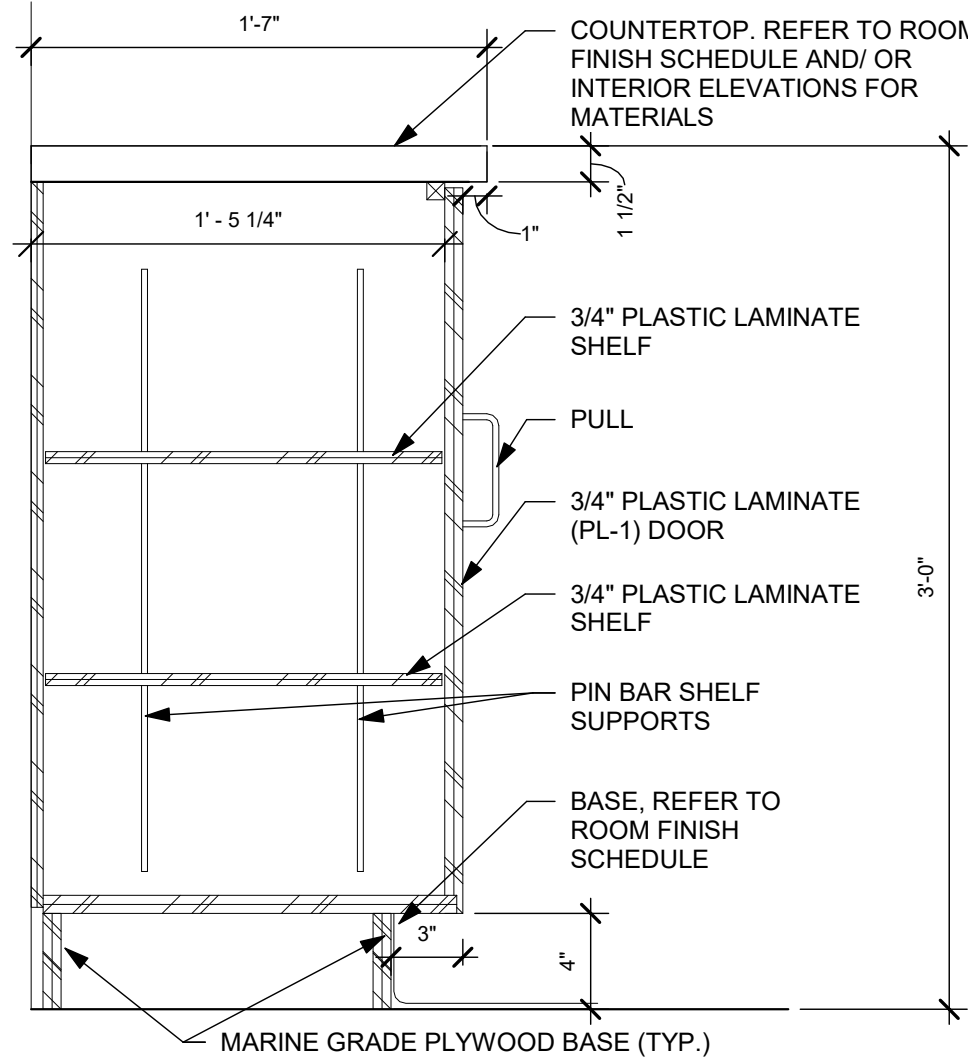




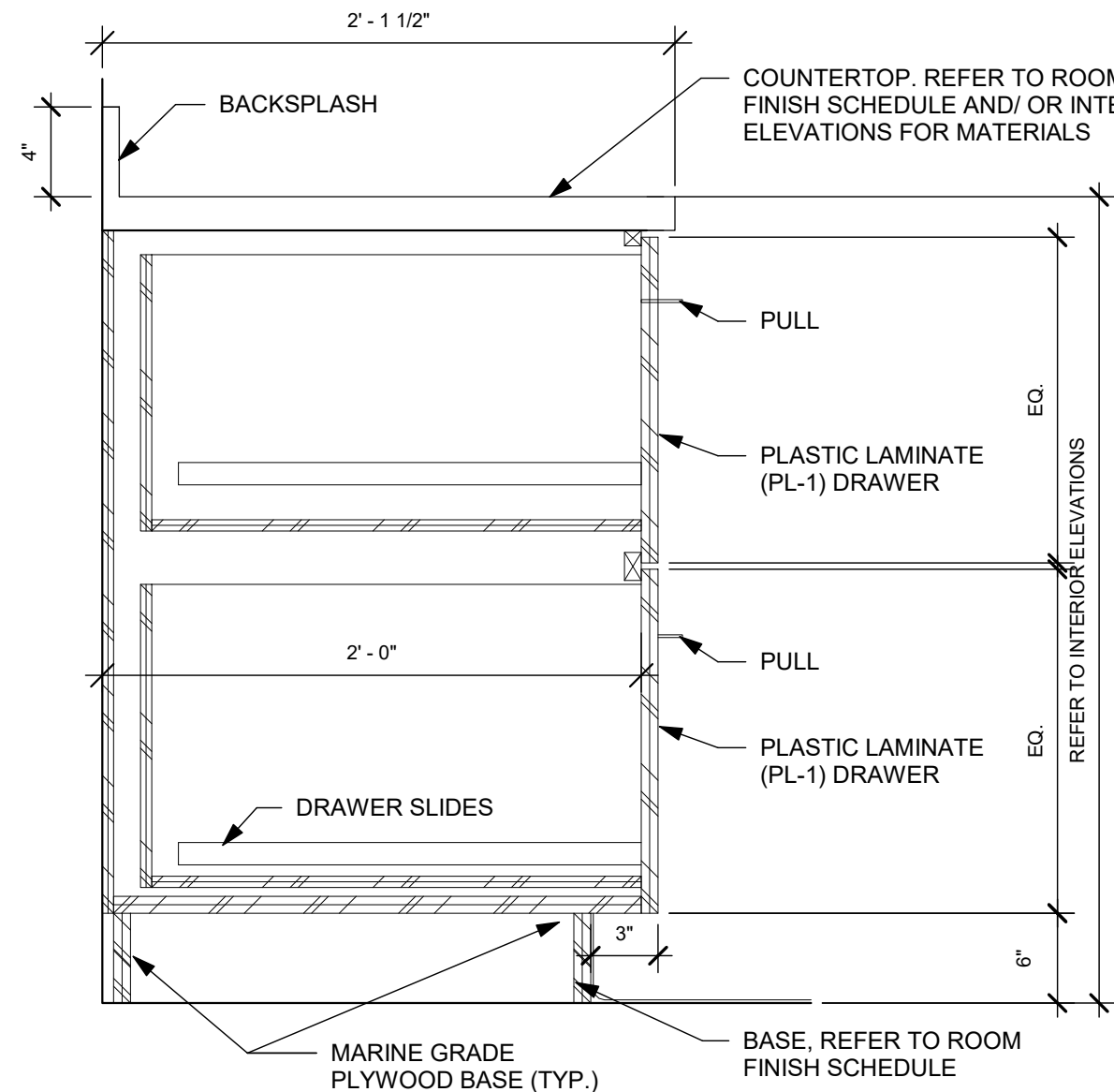
**B1** WALL CABINET (W) DETAIL  
1 1/2" = 1'-0"



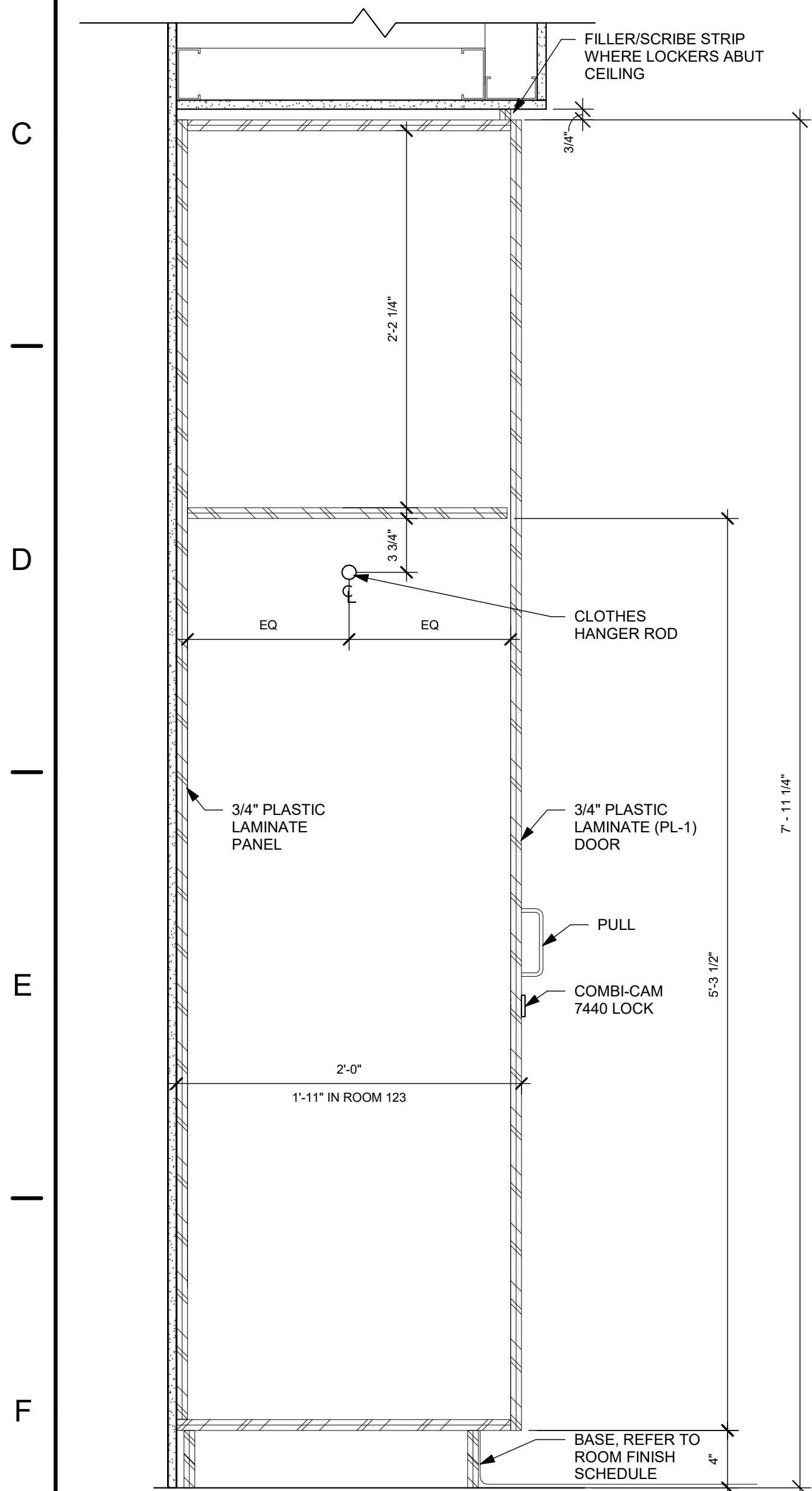
**B2** HANGER ROD W/ SHELF (HGR)  
1 1/2" = 1'-0"



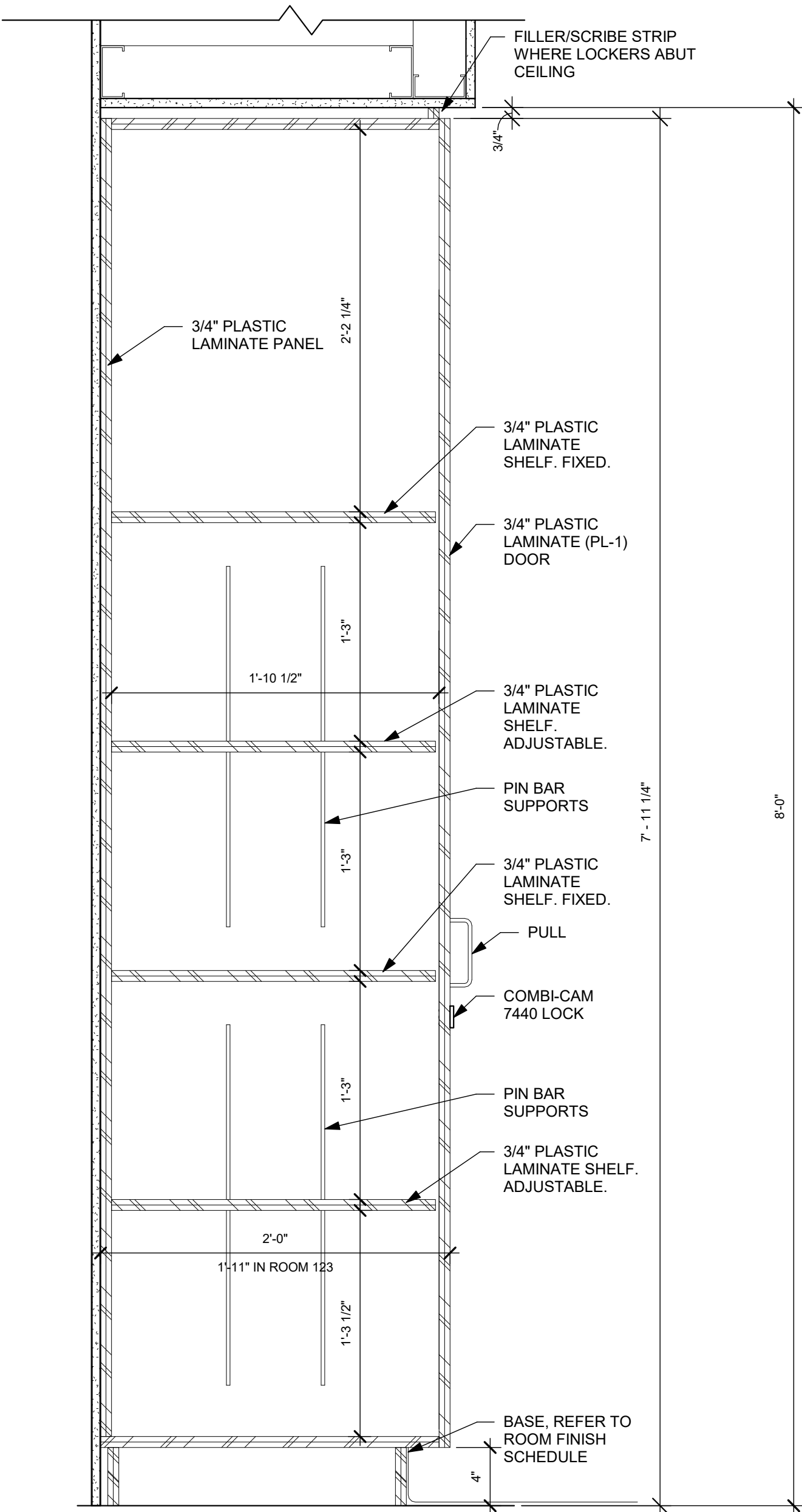
**B4** ENTERTAINMENT CABINET (ET)  
1 1/2" = 1'-0"



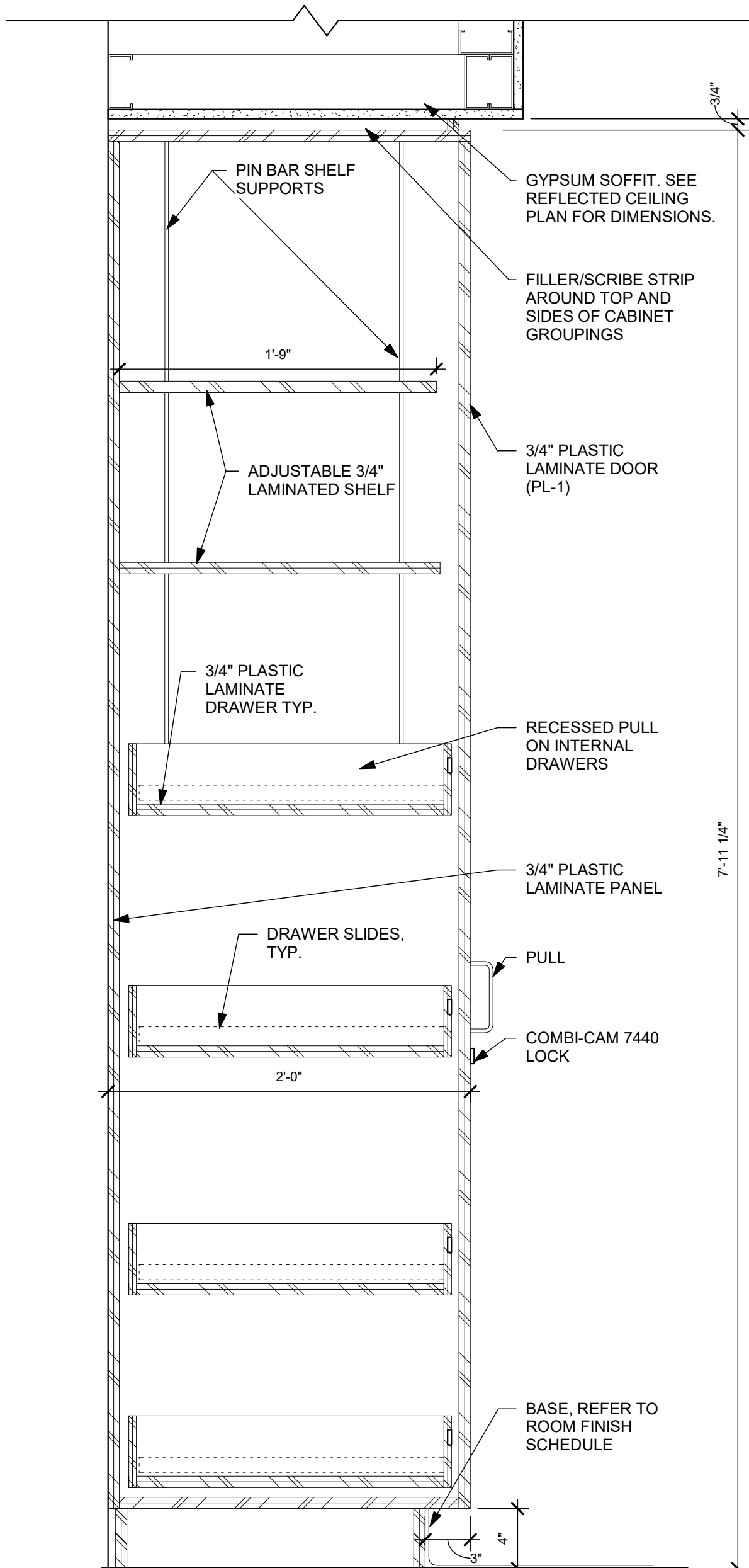
**B6** BASE FILE CABINET (BFC) DETAIL  
1 1/2" = 1'-0"



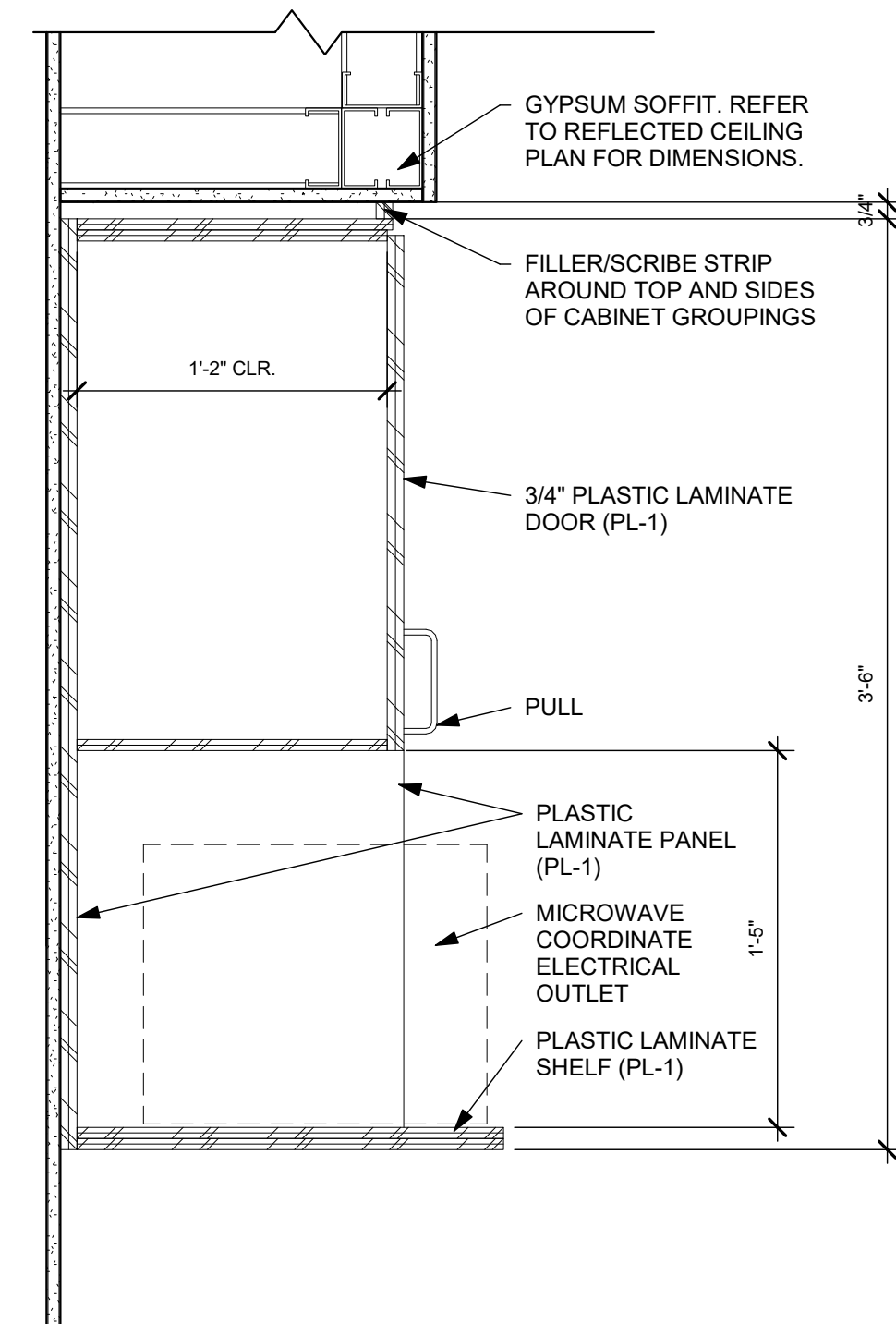
**F1** LOCKER (LKR) - HANGER SIDE  
1 1/2" = 1'-0"



**F2** LOCKER (LKR) - SHELF SIDE  
1 1/2" = 1'-0"



**F4** PANTRY CABINET (PC) DETAIL  
1 1/2" = 1'-0"



**F6** MICROWAVE CABINET (WM) DETAIL  
1 1/2" = 1'-0"



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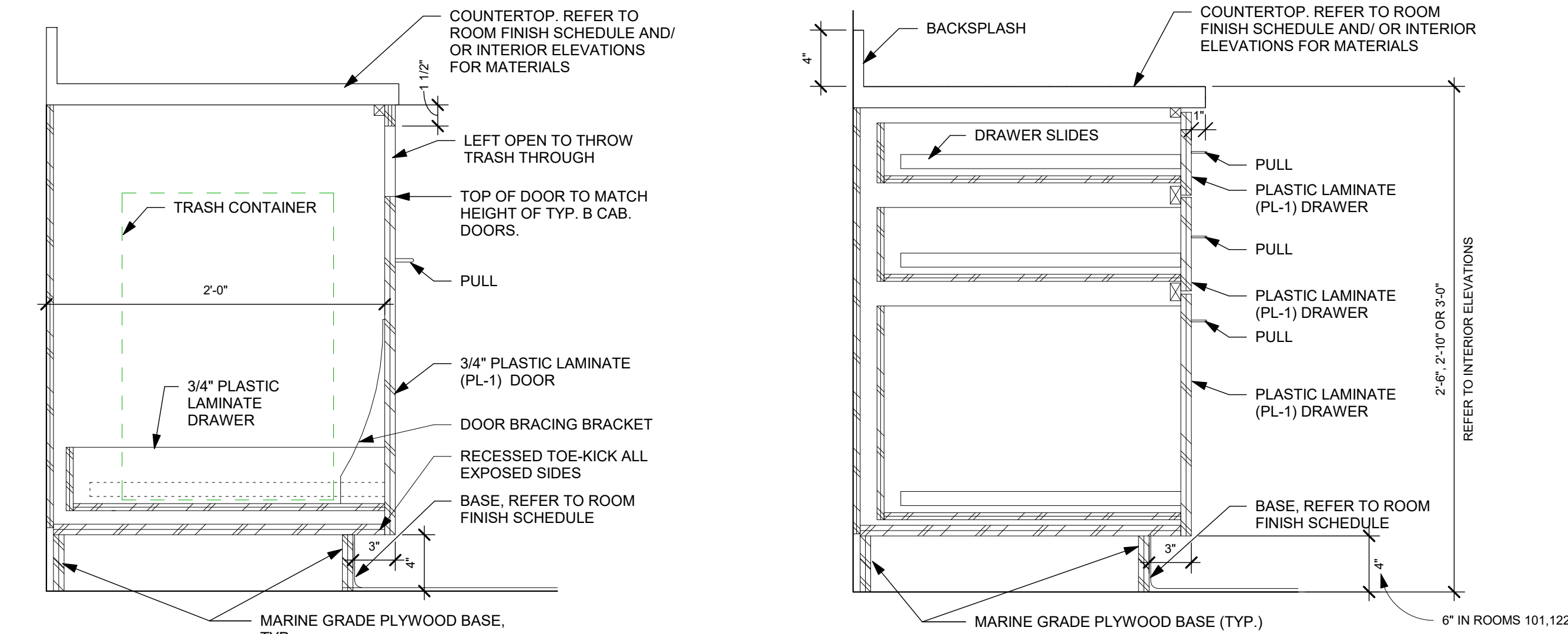
B

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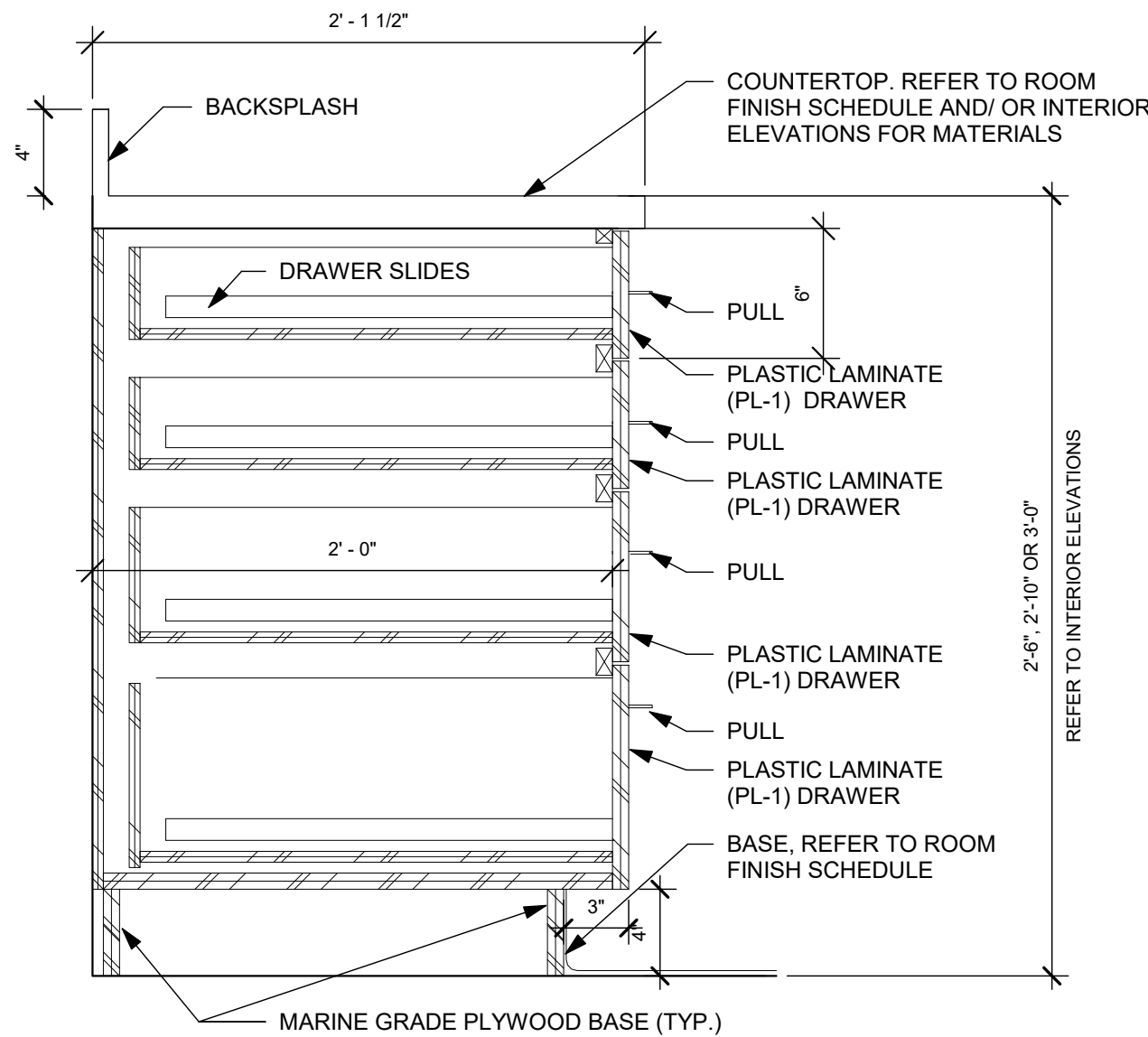
E

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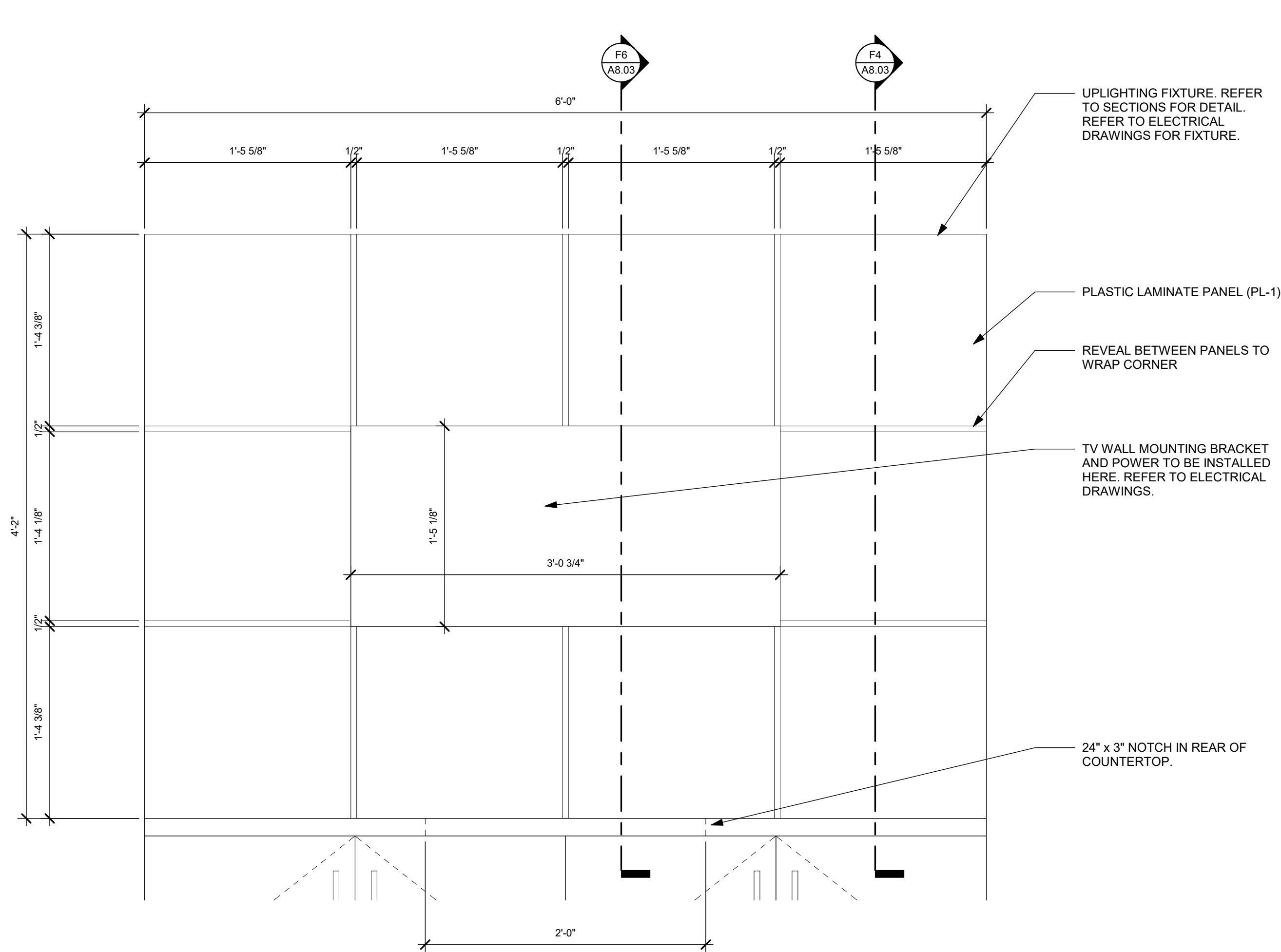


**B1** TYP. TRASH BASE CABINET (BT) DETAIL  
1 1/2" = 1'-0"

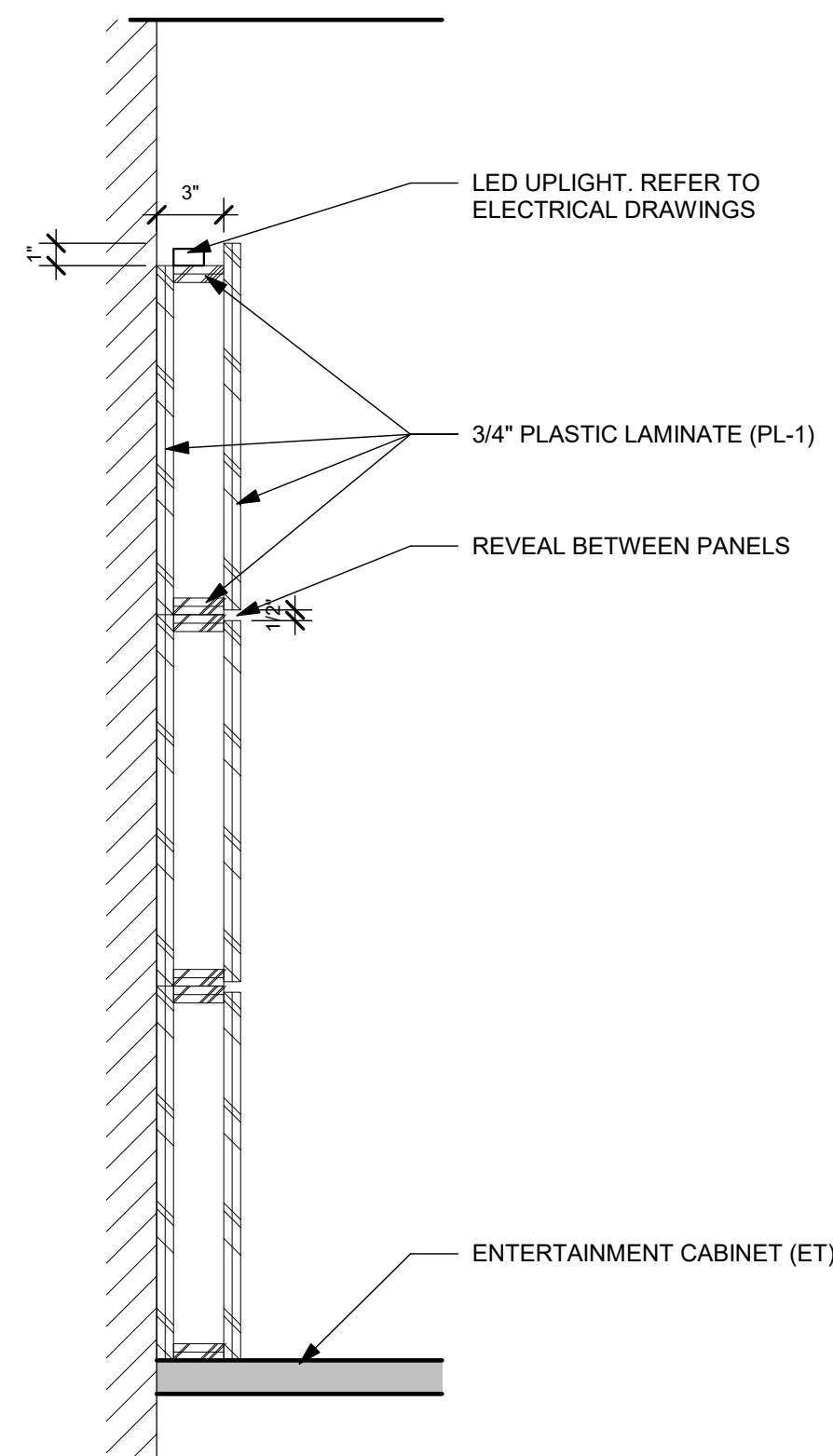
**B2** 3-DRAWER BASE CABINET (3BD) DETAIL  
1 1/2" = 1'-0"



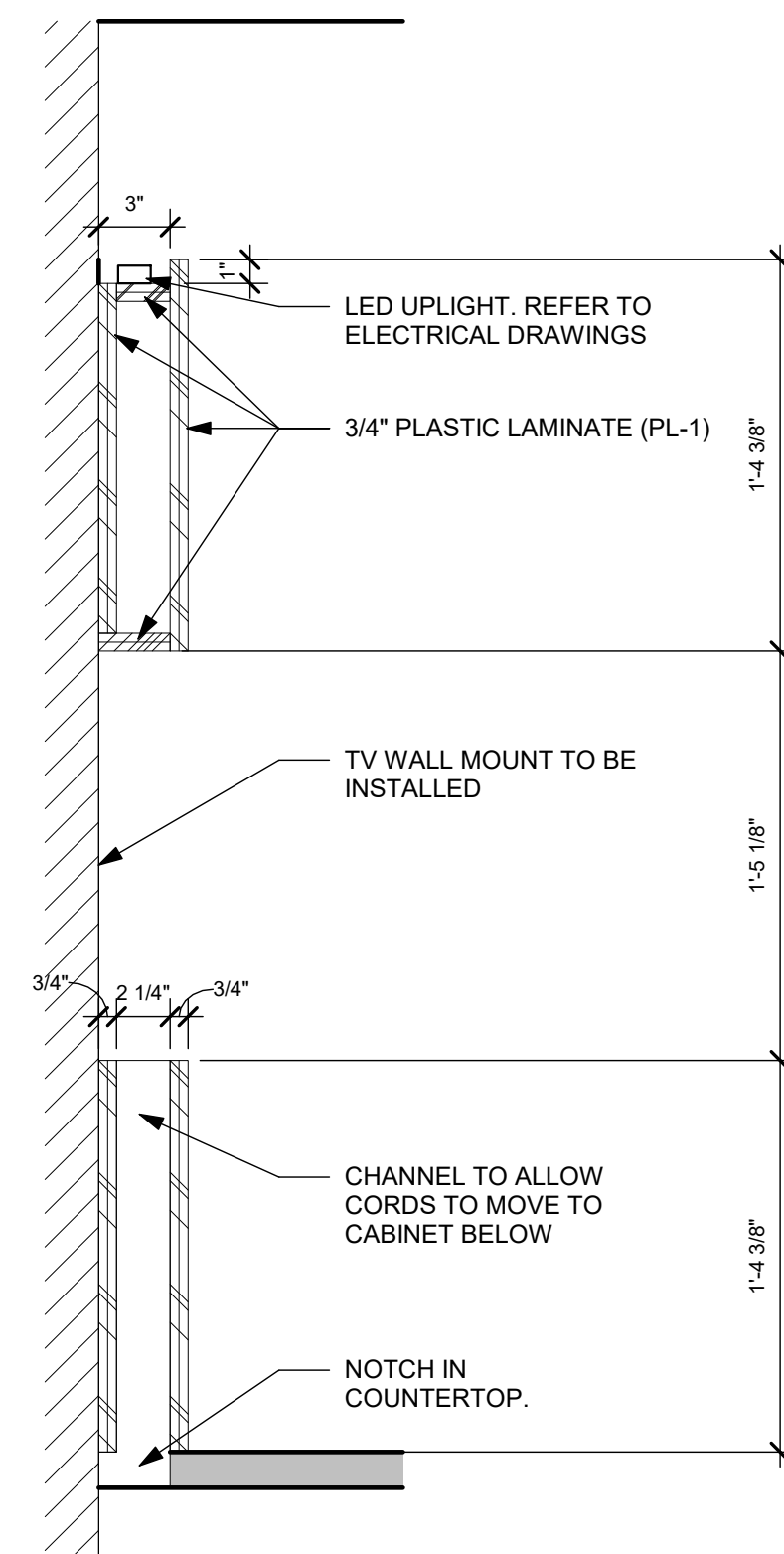
**D1** 4-DRAWER BASE CABINET (4BD) DETAIL  
1 1/2" = 1'-0"



**C4** TV DETAIL  
1 1/2" = 1'-0"



**F4** TV SECTION 1  
1 1/2" = 1'-0"



**F6** TV SECTION 2  
1 1/2" = 1'-0"

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TITLE  
**CASEWORK DETAILS**



11/12/2025 5:07:50 PM

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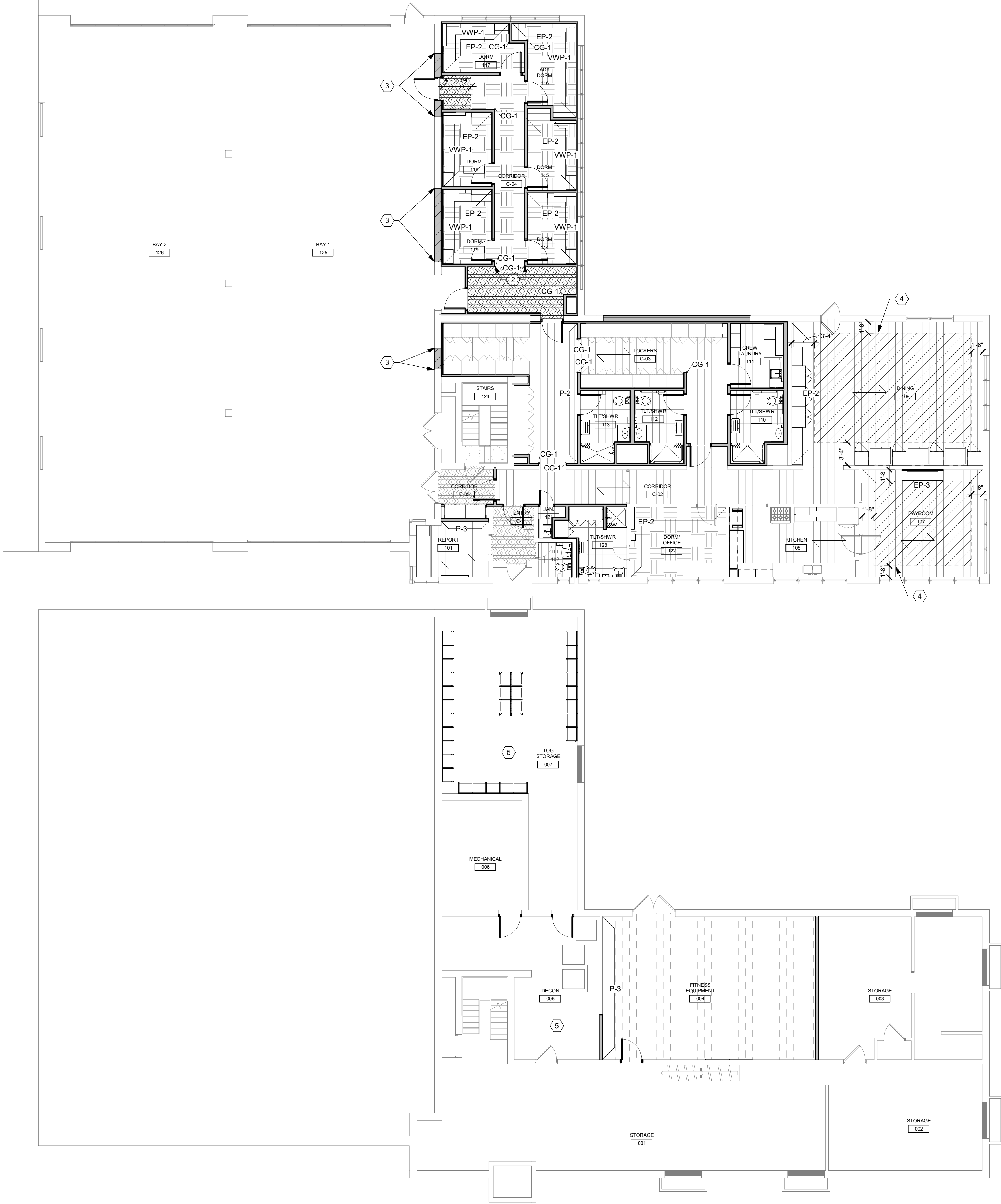
D

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F

C1 FINISH FLOOR PLAN - LEVEL 1  
1/8" = 1'-0"

F1 FINISH FLOOR PLAN - BASEMENT  
1/8" = 1'-0"

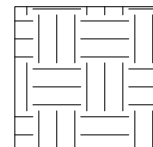


## CONSTRUCTION NOTES

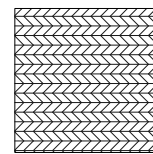
- 00 INDICATES CONSTRUCTION NOTE.
- ALIGN EGDE OF MAT-1.
  - PAINT NEW CMU P-5.
  - EXTENTS OF LVT-1/LVT-2/LVT-3 FLOORING MIX.
  - CLEAN CONCRETE FLOOR.

## GENERAL NOTES

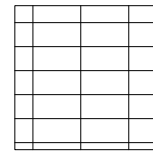
- REFER TO FINISH SCHEDULE A0.02 FOR ADDITIONAL MATERIAL DETAILS A LOCATIONS.
- TRANSITION STRIPS ARE REQUIRED WHERE DIFFERING FLOORING TYPES MEET.
- REFER TO ENLARGED FLOOR PLANS FOR TILE LAYOUTS AND DIMENSIONS.



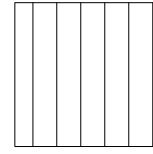
CPT-1 CARPET TILE



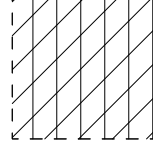
MAT-1 WALK OFF MAT



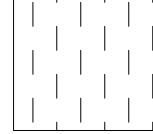
PT-1 PORCELAIN TILE



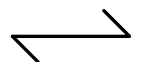
LVT-1 / LVT-2 LUXURY VINYL TILE  
50 / 50 MIX



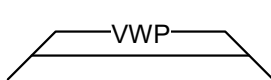
LVT-1 / LVT-2 / LVT-3 LUXURY VINYL TILE  
40 / 40 / 10 MIX



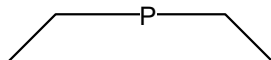
TF-1 RUBBER TILE FLOORING



FLOORING DIRECTION



VWP-1 VINYL WALL  
PROTECTION



ACCENT PAINT COLOR /  
LOCATION

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B

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D

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F

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TITLE  
**FINISHES FLOOR PLANS**

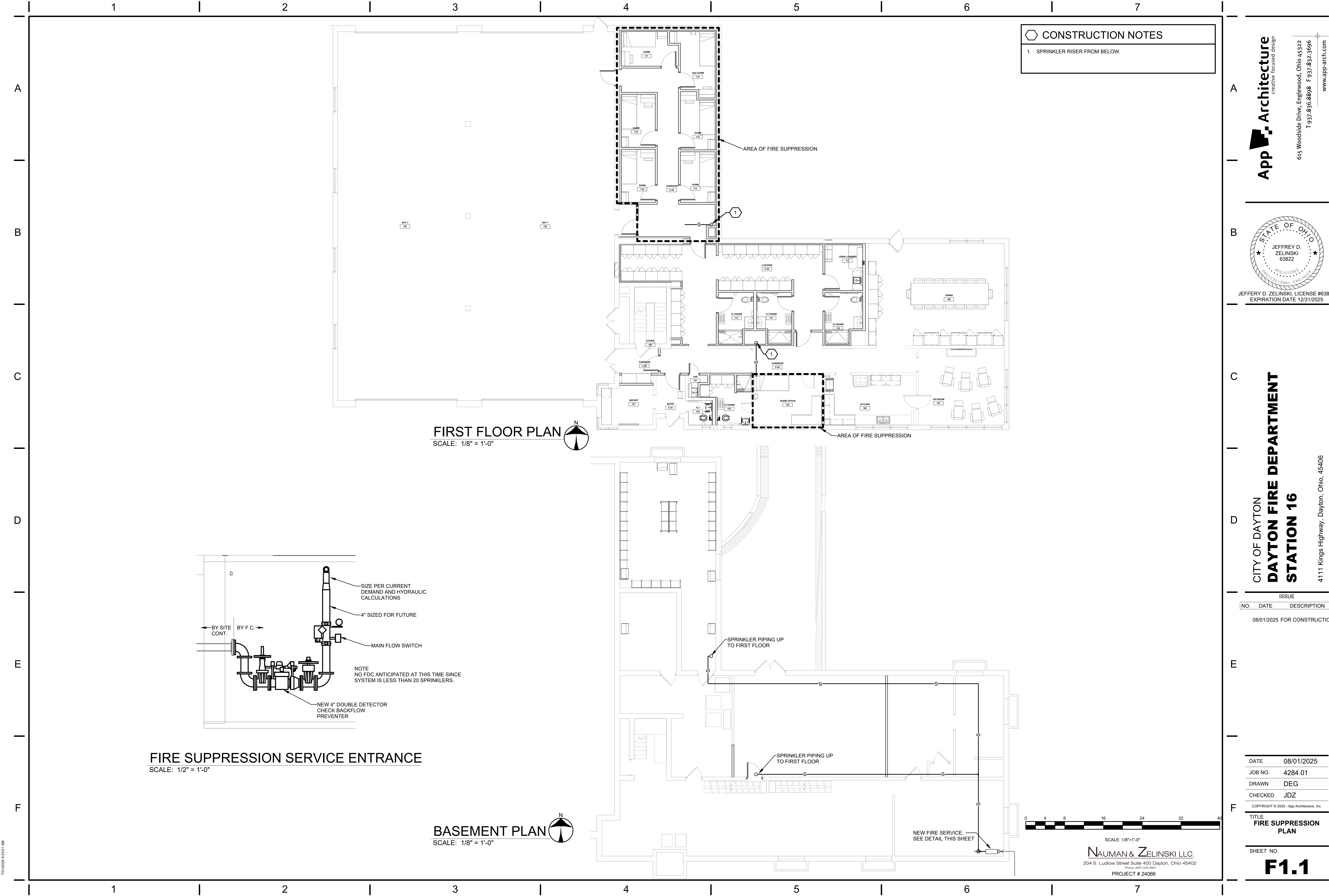
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**A9.02**









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TITLE  
FIRE SUPPRESSION  
PLAN

SHEET NO.

F1.1



PIPE HANGER SCHEDULE - PLUMBING

GENERAL NOTES FOR PIPE HANGERS:

DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, SYSTEM CONTENTS, AND TEST WATER.

WELDING: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE: SECTION IX.

ATTACHMENT OF PIPE HANGER RODS TO THE STRUCTURE SHALL BE WITH:

1. PRE-SET CONCRETE INSERTS.
2. BEAM CLAMPS FOR STEEL CONSTRUCTION EQUAL TO ANVIL FIG. 92, 93, OR 94. UTILIZE SWIVEL TYPE IN SLOPED STEEL CONSTRUCTION TO PROVIDE VERTICAL SUPPORT OF PIPE WITHOUT BENDING HANGER RODS.
3. CHANNEL SUPPORT SYSTEM EQUAL TO UNISTRUT OR HILTI.

ATTACHMENT TO MANUFACTURED TRUSSES AND OTHER ENGINEERED STRUCTURAL MEMBERS AND SUPPORTS SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR TYPE OF ENGINEERED STRUCTURAL SYSTEMS BEING USED. CONNECTIONS TO THESE STRUCTURAL MEMBERS SHALL BE MADE WITH CONNECTION DEVICES AND METHODS APPROVED BY THE STRUCTURAL MANUFACTURER. PROVIDE ADDITIONAL SUPPORTS WITH SUPPLEMENTAL STEEL SHAPES WHEN SPACING BETWEEN STRUCTURAL MEMBERS EXCEEDS SPECIFIED DISTANCES.

ADJUST PIPE HANGERS TO PROPER ELEVATION AND SET HANGER RODS IN A VERTICAL POSITION BEFORE PIPE INSULATION IS INSTALLED.

THE FIRST TWO HANGERS ON PIPING CONNECTING TO MOTOR DRIVEN EQUIPMENT SHALL BE FITTED WITH A STEEL SPRING AND NEOPRENE VIBRATION ISOLATION SECTION SIMILAR TO MASON INDUSTRIES, NO. 30N.

TRAPEZE HANGERS FOR NUMEROUS PIPES RUN IN PARALLEL MAY BE UTILIZED. HORIZONTAL SUPPORT MEMBERS SHALL BE UNISTRUT TYPE SECTION WITH PIPE ROLLERS (TO ALLOW FOR EXPANSION TRAVEL) AND SPRING AND NUT CONNECTORS, SUSPENDED WITH HANGER RODS AND ATTACHMENTS SIMILAR TO INDIVIDUAL PIPE HANGER SUSPENSION.

SHORTENED EXTENDED LEGS OF PIPE RISER CLAMPS AS NEEDED TO MAINTAIN CONCEALMENT OF THE CLAMP WITHIN THE PIPE CHASE. INSURE THAT ADEQUATE SUPPORT IS STILL MAINTAINED.

HANGER ASSEMBLIES EXPOSED ON COMPLETION OF THE PROJECT SHALL BE PAINTED BEFORE INSTALLATION.

PIPE SUPPORTS FOR PIPE RUNNING ACROSS THE ROOF SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AS DETAILED. INSTALL PROTECTIVE SLIP SHEETS OF ROOFING MEMBRANE UNDER THE BASES TO SATISFY REQUIREMENTS OF BOTH THE ROOFING MANUFACTURER AND THE SUPPORT SYSTEM MANUFACTURER.

IN PIPING SYSTEMS WITH MECHANICAL JOINT COUPLINGS, PIPE HANGERS SHALL BE PROVIDED ON HORIZONTAL PIPING AT NORMAL SPECIFIED INTERVALS AND, IN ADDITION, SO THAT NO PIPE SHALL BE LEFT UNSUPPORTED BETWEEN ANY TWO COUPLINGS NOR LEFT UNSUPPORTED WHENEVER A CHANGE IN DIRECTION TAKES PLACE. VERTICAL PIPING SHALL BE SUPPORTED AT NORMAL SPECIFIED INTERVALS OR EVERY OTHER PIPE LENGTH, WHICH EVER IS MORE FREQUENT. THE BASE OF THE RISER OR BASE FITTING SHALL BE SUPPORTED.

SYSTEM & SIZE	ORIENTATION & SIZE	SPACING
STEEL PIPING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 2" & SMALLER	8 FT.
	HORIZONTAL 2.5" - 6"	10 FT.
	HORIZONTAL 8" & LARGER	12 FT.
CAST IRON	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL	AT 10 FT. INTERVALS. SUPPORT EACH LENGTH OF PIPE NOT MORE THAN 18" FROM THE JOINT. SUPPORT TERMINAL ENDS OF HORIZONTAL RUNS AND BRANCHES AND EACH CHANGE IN DIRECTION. 5" AND LARGER PROVIDE BRACING TO PREVENT HORIZONTAL MOVEMENT IN ACCORDANCE WITH CISPI "SOIL PIPE AND FITTINGS HANDBOOK"
COPPER TUBING	VERTICAL	AT BASE AND 15 FT MAXIMUM
	HORIZONTAL 1.25" & SMALLER	6 FT.
	HORIZONTAL 1.5" - 2"	8 FT.
	HORIZONTAL 2.5" & LARGER	10 FT.
PLASTIC PIPING	VERTICAL	PER MANUFACTURER'S RECOMMENDATION
	HORIZONTAL	PER MANUFACTURER'S RECOMMENDATION

PLUMBING FIXTURE SCHEDULE

ITEM	FIXTURE DESCRIPTION	FIXTURE	SERVICES				MTG. HGT.	TRIM REQUIREMENTS						NOTES
			H.W.	C.W.	SAN.	VENT		SUPPLY	STOPS	WASTE	TRAP	CARRIERS	ACCESSORIES	
W1	WATER CLOSET/ VIT. CHINA/ FLOOR SET/ MANUAL FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG M&P SCORE/ OPEN FRONT SEAT WITH L/D/ ACCESSIBLE	AM. STANDARD # 3043.001	--	1"	4"	2"	--	SLOAN # SLOAN 111-1.6	UNIT	UNIT	INTEGRAL	--	SEAT BEMIS # 1950SSTDG	
L1	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ SINGLE LEVER CAST BRASS FAUCET/ 0.5 GPM/ ASSE 1070...	BY OTHERS	1/2"	1/2"	1 1/4"	1 1/2"	--	AM. STANDARD # 6114.116	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC	--	POWERS # LFE480	
L2	LAVATORY/ VIT. CHINA/ WALL HUNG/ SINGLE LEVER CAST BRASS FAUCET/ 0.5 GPM/ ASSE 1070 DEVICE/ ACCESSIBLE	AM STANDARD # 65	1/2"	1/2"	1 1/4"	1 1/2"	--	AM. STANDARD # 6114.116	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC	ZURN # Z1251	POWERS # LFE480	
S1	SINK/ ST. ST./ UNDERMOUNT/ SINGLE BOWL/ 17" X 17" X 9" DEEP BOWL/ SINGLE LEVER FAUCET W PULL DOWN SPRAY	ELKAY # ECTRU17179T	1/2"	1/2"	1 1/2"	1 1/2"	--	AM. STANDARD STUDIO S # 4803410	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912	--		
SH1	SHOWER/ STALL BY OTHERS/ CENTER DRAIN STYLE/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL	BY OTHERS	1/2"	1/2"	3"	1 1/2"	VALVE 40" HEAD 78"	POWERS #E710-M-4-N-B-W	UNIT	UNIT	SAME AS SANITARY PIPING	--	--	
SH2	SHOWER/ STALL BY OTHERS/ TRENCH DRAIN STYLE/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL	BY OTHERS	1/2"	1/2"	3"	1 1/2"	VALVE 40" HEAD 78"	POWERS #E710-M-4-N-B-W	UNIT	UNIT	SAME AS SANITARY PIPING	--	--	
M1	MOP SINK/ FLOOR SET/ 24" SQ. 10" DEEP/ MOLDED STONE/ VINYL CAPS/ ST.ST. WALL PANELS/ ON 2 SIDES/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS	FIAT # MSB2424	1/2"	1/2"	3"	1 1/2"	36" FAUCET	AM. STANDARD # 8351.112	UNIT	UNIT	SAME AS SANITARY PIPING	--	FIAT # E-88-AA , # MSG2424	
WB1	WASHER UTILITY CONNECTION BOX/ 1/4 TURN BALL VALVES WITH WATER HAMMER ARRESTOR/ WASTE CONNECTION	OATEY # 38540	3/4"	3/4"	2"	1 1/2"	30"	UNIT	BALL VALVES ABOVE CEILING	UNIT	SAME AS SANITARY PIPING	--	--	

EQUALS

AMERICAN STANDARD CHINA - KOHLER, ZURN, SLOAN

AMERICAN STANDARD FAUCETS - KOHLER, ZURN, CHICAGO, T&S BRASS

SLOAN FLUSH VALVES - ZURN, DELANEY

ELKAY SINKS - JUST, ADVANCED TABCO

MCGUIRE - WATTS, BRASS CRAFT

MCGUIRE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXTREME"

OATEY SUPPLY BOXES - IPS, GUY GRAY, SIOUX CHIEF

NOTES:

1.

DRAIN SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	OUTLET SIZE	FEATURES					STRAINER/GRATE					NOTES		
				ANCHOR FLANGE	FLASHING CLAMP	UNDERDECK CLAMP	DBL/ DRAINAGE	SEDIMENT BUCKET	TOP/STRAINER SIZE	FLAT	DOME	OPEN (NO GRATE)	HALF OPEN		ADJUSTABLE	FUNNEL
FD1	FLOOR DRAIN/ CAST IRON BODY/ NICKEL BRONZE ROUND TOP/ ADJUSTABLE	ZURN # ZN415-B7	3"	●			●			7" DIA	●			●		1.

NOTES

1. PROVIDE ASSE 1072 TRAP MAINTENANCE DEVICE ON DRAIN.

2. MOUNT APPROX. 24" ABOVE FINISHED GRADE.

GENERAL NOTES - PLUMBING

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 VERSION OF THE OHIO BUILDING AND PLUMBING CODES, INCLUDING REFERENCED CODES AND STANDARDS.
- OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- REMOVE ALL ABANDONED PIPING & SUPPORTS.
- SHUT DOWN OF DOMESTIC WATER SYSTEM SHALL BE SCHEDULED WITH THE OWNER.
- COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES. ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF FIRE WALLS AND SMOKE PARTITIONS. IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS WITH AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE. IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVED FIRE STOPPING PRODUCT. SEE SPECIFICATIONS.
- REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPING AND PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS.
- ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSED STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN.
- ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DEFINES THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE SUPPORTING EQUIPMENT, MATERIALS, FINISHING, UTILITY COST, ETC (EXAMPLES: CONCRETE PADS, PAINTING, TEMPORARY ELECTRIC/GAS COSTS) FOR PRECEDENCE OVER OTHER SPECIFICATION SECTIONS OR DRAWING REQUIREMENTS.

PLUMBING INDEX OF DRAWINGS

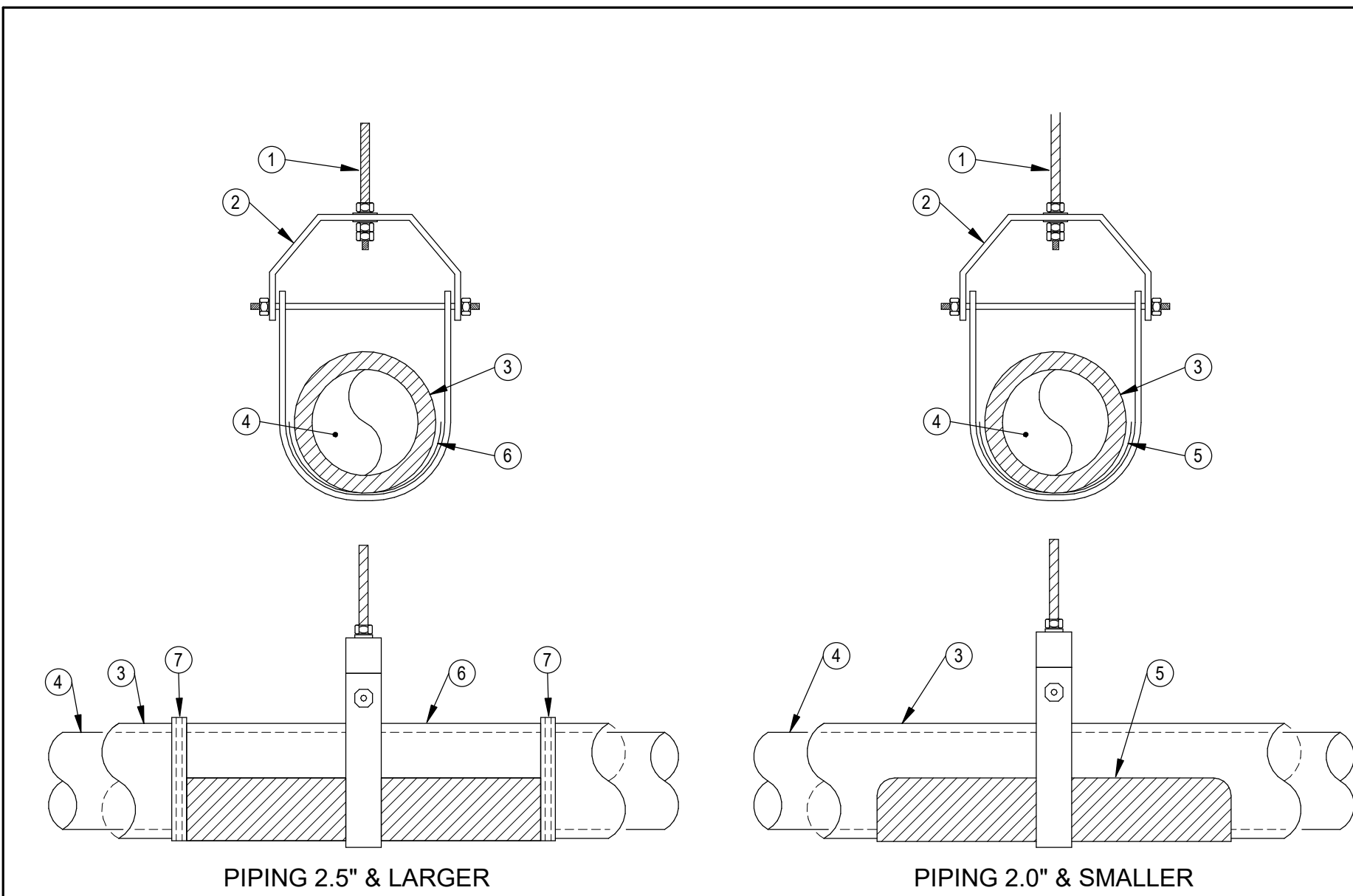
SHEET	DRAWING TITLE
P0.1	LEGENDS AND SCHEDULES
P0.2	MATERIAL SCHEDULES
P1.0	BASEMENT DEMOLITION PLAN
P1.1	FIRST FLOOR DEMOLITION PLAN
P2.0	BASEMENT NEW WORK PLAN
P2.1	FIRST FLOOR NEW WORK PLAN
P3.1	DETAILS
P4.1	SOIL, WASTE, AND VENT DIAGRAM

GENERAL LEGEND

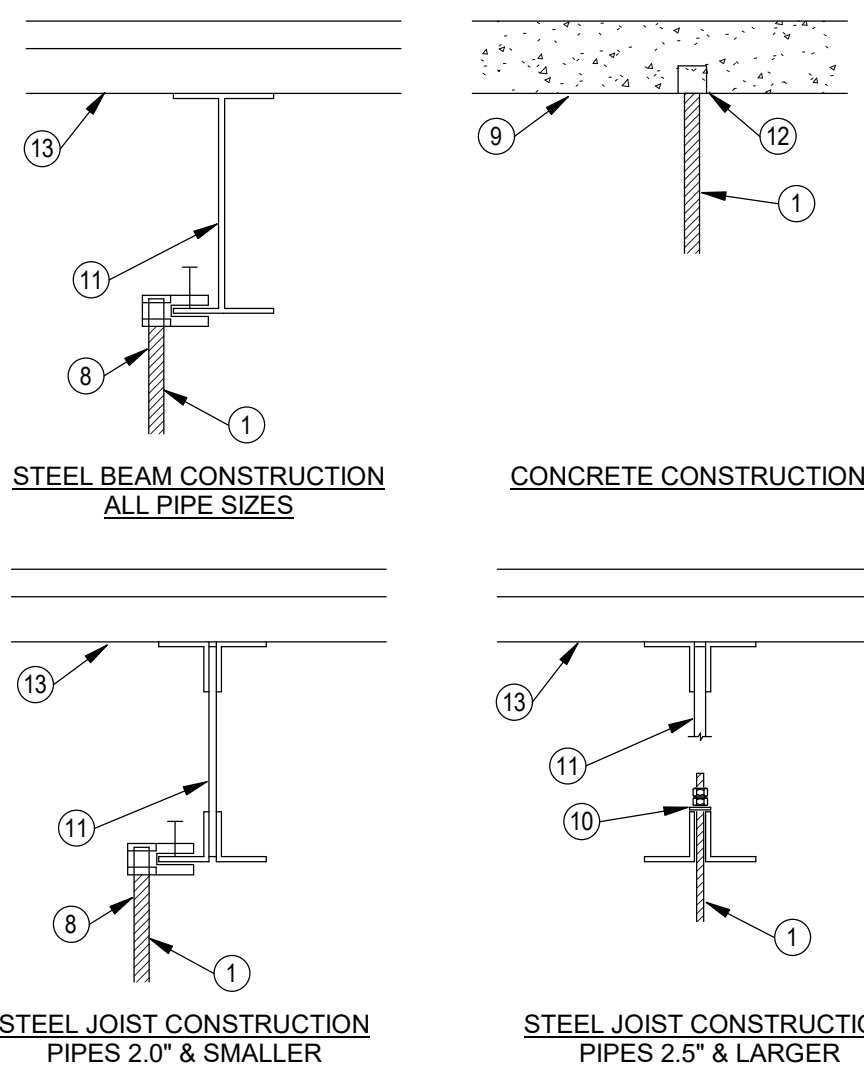
- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- 3 NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- 2 DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- H-1 EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- H-1 EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- 123 ROOM NUMBER.
- B DETAIL SYMBOL.
- H2 DETAIL "B" SHOWN ON SHEET H2.
- A H1 SECTION SYMBOL.
- H1 SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
- FD1 CONNECTION, NEW TO EXISTING.
- FD1 UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
- 1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

PLUMBING LEGEND

- SANITARY DRAIN
- VENT
- ST STORM DRAIN
- CD CONDENSATE DRAIN ABOVE FLOOR OR GRADE
- COLD WATER
- HOT WATER
- HOT WATER RETURN
- G NATURAL GAS
- A COMPRESSED AIR
- SHUT-OFF VALVE, SEE SCHEDULE FOR TYPE
- CHECK VALVE
- BALANCING VALVE
- VALVE ON RISER
- UNION
- Ⓟ PRESSURE REGULATOR
- Ⓢ PRESSURE GAUGE
- Ⓣ TEMPERATURE GAUGE
- Ⓞ CONNECTION, BOTTOM
- Ⓡ CONNECTION, TOP
- DIRECTION OF FLOW
- CAP
- C.O. CLEAN OUT
- V.R. VENT RISER
- V.T.R. VENT THRU ROOF
- S.S. SOIL STACK
- V.S. VENT STACK
- D.S. DOWNSPOUT (STORM)
- S.D.S. SECONDARY DOWNSPOUT (STORM)
- S.S.O. SECONDARY STORM OUTLET



- 1 GALVANIZED THREADED ROD. ADJUST NUTS & RODS FOR PROPER ELEVATION.
- 2 STEEL CLEVIS PIPE HANGER. EQUAL TO ANVIL FIG. 260.
- 3 PIPE INSULATION.
- 4 PIPE.
- 5 12" LONG, 18 GA. GALVANIZED INSULATION SHIELD. EQUAL TO ANVIL FIG. 168. CONTINUOUS INSULATION.
- 6 18" LONG INSULATED PIPE SADDLES. BUCKAROOS TRU-BALANCE 3300U OR EQUAL. PROVIDE WITH 3.75 LB. DENSITY PNEUMOLIC FOAM INSULATION WITH VAPOR RETARDER JACKET & BOTTOM GALVANIZED METAL INSULATION SHIELD. SADDLES TO MEET 25/50 FLAME/SMOKE RATING.
- 7 PIPE INSULATION AND SADDLE INSULATION SHALL BE TIGHTLY ABUTTED TOGETHER. SEAL WITH 4" WIDE VAPOR RETARDER TAPE WITH FACTORY APPLIED JACKET WITH ACRYLIC ADHESIVE TO ASSURE VAPORTIGHT SEAL.
- 8 THREADED ROD BEAM CLAMP.
- 9 CONCRETE SLAB OR PLANK.
- 10 RETAINING NUTS & WASHERS.
- 11 STEEL JOIST OR BEAM.
- 12 CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
- 13 METAL DECKING. DIRECT ATTACHMENT TO DECKING IS PROHIBITED. PROVIDE SUPPLEMENTAL STEEL ANGLES OR UNISTRUT WHERE REQUIRED FOR PROPER HANGER SPACING OR IN LIEU OF ATTACHMENTS SHOWN.



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2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
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TITLE

LEGENDS AND SCHEDULES

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## VALVE SCHEDULE

### GENERAL NOTES FOR VALVES:

QUALITY ASSURANCE  
VALVES SHALL COMPLY WITH ANSI, ASTM AND ASME.

VALVES ON DOMESTIC WATER SYSTEMS SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

GROOVED END VALVES SHALL CONFORM TO ANSI/AWWA C-606.

PRODUCTS  
WORKING PRESSURES SHALL EXCEED THOSE IMPOSED BY THE SERVICE APPLIED.

VALVES WHICH ARE INSULATED SHALL HAVE EXTENDED SHAFTS.

PROVIDE FLOW MEASURING GAUGES WITH COCKS, HOSES & CONNECTORS FOR BALANCING VALVES. PROVIDE METERING TOOL.

PROVIDE HOSE ADAPTORS ON DRAIN VALVES.

SWEAT END VALVES OF EQUAL CONSTRUCTION ARE ACCEPTABLE IN LIEU OF SCREWED ENDS.

IN MECHANICALLY JOINED SYSTEMS, VALVES OF EQUAL CONSTRUCTION WITH COMPATIBLE ENDS ARE ACCEPTABLE AND MAY BE MANUFACTURED BY THE COUPLING MANUFACTURER.

VALVE MANUFACTURERS:  
BALL VALVES - NIBCO, WATTS, MILWAUKEE, APOLLO, CONBRACO, CRANE.  
BALANCING VALVES - BELL & GOSSETT, ARMSTRONG, WATTS.  
CHECK VALVES - NIBCO, STOCKHAM, WATTS.

EXECUTION  
VALVES SHALL BE INSTALLED WITH STEM ABOVE CENTERLINE OF PIPE.

PIPING SYSTEM	VALVE TYPE					
	BUTTERFLY	BALL	CHECK	GATE	BALANCING	LUB. PLUG
DOMESTIC WATER SERVICE 2" AND LARGER				D18		
DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER		B11, B14	C11, C13		E11	
DOMESTIC WATER (CW, HW, & HWR) 2.5" AND LARGER		B14	C12, C14 C16			
DOMESTIC WATER (CW, HW, & HWR) 4" AND LARGER						
SANITARY OR STORM PUMP DISCHARGE 2" AND SMALLER		B13				
INTERIOR NATURAL GAS 3" AND SMALLER		B17				
EXTERIOR NATURAL GAS 2" AND SMALLER		B18				P12

TYPE	DESCRIPTION	TYPE	DESCRIPTION	TYPE	DESCRIPTION
B11	NIBCO T-585-80-LF, 150 W.S.P., 2 PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND STEM, TFE SEAT AND SEAL, HANDLE. NSF/ASME 61	C11	NIBCO T-413-Y-LF, 125 W.S.P., BRONZE BODY, SCREWED ENDS, RENEWABLE BRONZE SWING DISC WITH TFE SEAT RING. NSF 61	C16	WATTS SERIES LFWCV, 125 W.S.P., BRONZE BODY, SCREWED ENDS, BRONZE SWING DISC, NSF/ASME 61
B13	WATTS G-4000-FDA, 125 W.S.P., 2-PIECE EPOXY COATED CAST IRON BODY, FLANGED ENDS, STAINLESS STEEL BALL AND STEM, FULL PORT, TEFLON SEAT AND SEAL, HANDLE.	C12	NIBCO F-938-33, 285 PSI C.W.P., DUCTILE IRON BODY, STAINLESS STEEL TRIM, FLANGED ENDS, RENEWABLE STAINLESS STEEL SWING DISC AND SEAT RING. NSF/ANSI 61-8	D18	KENNEDY KS-FW 8068A, 200 PSI, NSF 61 EPOXY COATED CAST IRON BODY, RESILIENT WEDGE, O.S & Y., FLANGED ENDS
B14	APOLLO 70LF-240, 150 WSP, 2 PIECE LEAD-FREE BRONZE BODY, 316 STAINLESS STEEL BALL AND STEM, STANDARD PORT, TEFLON SEAT AND SEAL, HANDLE, NSF/ASME 61	C13	NIBCO T-480-Y-LF, 125 W.S.P., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, BRONZE BODY, SCREWED ENDS, TFE DISC AND SEAT RING, NSF/ASME 61	E11	BELL & GOSSETT CB-1LF 400 PSI, BRONZE BODY WITH BRASS BALL, SCREW CONNECTION, READOUT AND DRAIN PORTS, TFE SEATS, CALIBRATED NAMEPLATE, HANDLE WITH MEMORY STOP, NSF/ASME 61
B17	NIBCO T-FP-600A, 600 PSI NON-SHOCK COLD., 2 PIECE, BRASS BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE. UL LISTED FOR GAS. ASME B16.44	C14	NIBCO F-910-LF 125 W.O.G., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, GLOBE STYLE, IRON BODY FOR INSTALLATION BETWEEN FLANGES, BRONZE SEAT AND DISC. NSF/ASME 61	P12	NORDSTROM NO. 115, 200 PSI, IRON BODY, ST. ST. STEM, FLANGED ENDS, WRENCH ASME B16.33
B18	NIBCO T-585(OR 580)-70-UL, 600 PSI NON-SHOCK COLD, 2 PIECE, BRONZE BODY, SCREWED ENDS, FULL PORT, BRASS BALL, TFE SEAT, HANDLE. UL LISTED FOR GAS. ASME B16.33				

## PIPE INSULATION SCHEDULE - PLUMBING

### GENERAL NOTES:

QUALITY ASSURANCE  
FIRE, SMOKE RATINGS: FLAME SPREAD RATING OF 25 OR LESS, SMOKE DEVELOPED RATING OF 50 OR LESS.

THICKNESSES SHALL CONFORM TO ASHRAE 90.1 MINIMUMS.

GREEN GUARD INDOOR AIR QUALITY CERTIFIED.

EXECUTION  
INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

COLD SERVICE PIPE INSULATION AND VAPOR BARRIER/JACKET TO BE CONTINUOUS THRU FLOOR AND WALL SLEEVES AT ALL PIPE DEVICES AND PUMP CASINGS.

INSULATION AND VAPOR BARRIER TO BE CONTINUOUS AT PIPE HANGERS AND SUPPORTS ON HORIZONTAL PIPING.

VERTICAL PIPE SUPPORTS SHALL ATTACH DIRECTLY TO PIPE. INSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE CLOSED CELL INSULATION, SAME THICKNESS AS SYSTEM INSULATION ON COLD SERVICE PIPES TO PREVENT CONDENSATION.

PRIMARY AND SECONDARY ROOF DRAIN SUMPS SHALL BE INSULATED WITH 1" THICK INSULATION.

THE FIRST 10 FEET OF SECONDARY STORM PIPING AFTER THE DRAIN SHALL BE INSULATED.

ABOVE GRADE SANITARY DRAINAGE RECEIVING CONDENSATE SHALL BE INSULATED AS INDICATED BELOW FOR CONDENSATE DRAINAGE. WHERE THE DRAIN SUMP IS EXPOSED ON THE FLOOR BELOW, IT TOO SHALL BE INSULATED WITH 1" INSULATION.

SYSTEM & SIZE	INSULATION THICKNESS	TYPE	LOCATION
DOMESTIC COLD WATER 1.5" & SMALLER	0.5"	F1, P1	INTERIOR
DOMESTIC COLD WATER 2" & LARGER	1"	F1, P1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND SMALLER	1"	F1, P1	INTERIOR
DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.5" AND LARGER	1.5"	F1, P1	INTERIOR
INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1, P1	INTERIOR
CONDENSATE DRAINAGE	1"	F1, P1	INTERIOR

TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS-CORNING SSL1-ASJ	KNAUF 1000" PIPE, JOHNS MANVILLE MICRO-LOK HP	* INORGANIC GLASS FIBER WITH RESIN BONDING. * K=0.24 @ 100 DEG. F. * 3.5 - 5.5 PCF. * PREFORMED TUBULAR. * WHITE FSKR JACKET. * LONGITUDINAL LAP WITH SELF-SEALING ADHESIVE. * ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE, PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO.
P1	AEROFLEX AEROCEL EPDM	RUBATEX	* PREFORMED, FLEXIBLE CLOSED CELL EPDM, TUBULAR INSULATION, OR SHEET INSULATION. * K=0.25 @ 75 DEG. F. * CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.

## BUILDING DRAIN SYSTEMS SCHEDULE STORM, SANITARY, & VENT

### GENERAL NOTES:

QUALITY ASSURANCE  
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

ON PIPING 5" AND LARGER PROVIDE BRACING AT EVERY BRANCH OPENING OR CHANGE IN DIRECTION AS REQUIRED BY CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."

INSTALL PVC SOIL AND WASTE DRAINAGE AND VENT PIPING ACCORDING TO ASTM D 2665.

PRODUCTS  
PVC PIPING SHALL NOT BE USED IN SPACES USED AS PLENUMS.

PVC PIPING IN PLENUM SPACES SHALL BE PROVIDED WITH A "PLENUM WRAP" INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

EXECUTION  
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNUAL SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

LAY BURIED BUILDING DRAINAGE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

SLOPE DRAINAGE PIPING AT 1/4" PER FOOT (2%) FOR PIPING SMALLER THAN 3" AND 1/8" PER FOOT (1%) FOR PIPING 3" AND LARGER.

VENT PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

COUPLINGS AND GASKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP BENDS. SANITARY TEES AND SHORT-SWEEP 1/4 BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL.

DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

TESTING  
PIPING SHALL BE TESTED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

PIPING SYSTEM			TYPE
SANITARY PIPING BELOW FLOOR SLAB IN GRADE			P1
SANITARY & VENT PIPING ABOVE THE FLOOR			C11, C12
SANITARY PUMPED DISCHARGE			S1, P1
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C11	NO-HUB CAST IRON (STD) SERVICE WEIGHT ASTM A888 OR CISPI 301 SHIELDED COUPLINGS ASTM C1277 OR CISPI 310 RUBBER SLEEVE ASTM C564	S1	THREADED GALVANIZED STEEL SCHEDULE 40, ASTM A53 TYPE E DWV FITTINGS ASME B16.12
C12	HUB & SPIGOT CAST IRON ASTM A74, SERVICE CLASS DWV FITTING RUBBER GASKET ASTM C564	P1	PVC SCHEDULE 40 PVC ASTM D2665 AND D2321 DWV FITTINGS, ASTM D3311 GLUED JOINTS

NOTE:  
IN ABOVE CEILINGS SPACES USED AS RETURN AIR PLENUMS, SANITARY, STORM, AND VENT PIPING SHALL BE CAST IRON TYPE C1 OR C2. COORDINATE WITH H.C. FOR RETURN AIR PLENUMS LOCATIONS

SANITARY, STORM, AND VENT PIPING ABOVE THE FLOOR SLAB AND WITHIN WALLS MAY BE PVC TYPE P1, ONLY IF ALL (ALL TRADES) WALL PENETRATIONS ARE SEALED TO PREVENT THE PASSAGE OF SMOKE INTO RETURN AIR PLENUMS. TRANSITION TO CAST IRON SHALL OCCUR WITHIN THE WALL.

## BUILDING SUPPLY SYSTEMS SCHEDULE WATER, COMPRESSED AIR, & GAS

### GENERAL NOTES:

QUALITY ASSURANCE  
PIPING SHALL CONFORM TO OBC REQUIREMENTS.

PIPING SHALL COMPLY WITH ASME B31.9 "BUILDING SERVICES PIPING".

ALL COMPONENTS OF DOMESTIC WATER SYSTEMS (CW, HW, & HWR) SHALL BE "LEAD FREE" IN ACCORDANCE WITH THE FEDERAL SAFE WATER ACT (S3874) DEFINITION AND CONFORM TO NSF 61.

PRODUCTS  
DIELECTRIC CONNECTORS SHALL BE PROVIDED AT CONNECTIONS BETWEEN FERROUS & COPPER PIPING.

GAS PRESSURE REGULATORS SHALL BE CAST IRON SELF-OPERATING SPRING LOADED TYPE. VALVE 125 PSI. SPRING AND DIAPHRAGM CASINGS SHALL BE ALUMINUM. REGULATOR SHALL HAVE AN INTERNAL RELIEF VALVE ASSEMBLY, TAPPED VENT CONNECTION WITH REMOVABLE SCREEN ON THE SPRING CASING AND AN EXTERNAL PILOT OPERATOR TO AFFORD A 5% MAXIMUM DROOP. OVER-PRESSURE PROTECTION SHALL BE TEN TIMES THE INLET PRESSURE (OR HIGHER AS MAY BE REQUIRED BY THE GAS COMPANY). FISHER TYPE S102 OR S202 OR EQUAL BY SPRAGUE OR EQUIMETER.

UNIONS  
COPPER TUBING - WROUGHT OR CAST COPPER, CLASS 150, SOLDERED ENDS  
THREADED STEEL PIPE - MALLEABLE IRON W/GROUND SEAT, 300 LB SCREWED ENDS.

MECHANICALLY FORMED TEES AND COUPLINGS (T-DRILL) ARE NOT PERMITTED.

EXECUTION  
PIPE AND TUBING SHALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN PARALLEL TO NORMAL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN MATTER AND BURRS BEFORE ERECTION OF PIPE.

ANNUAL SPACE AROUND PIPING THRU ALL WALLS SHALL BE SEALED OFF WITH PERMANENT PLIABLE CAULKING OR APPROVED PATCHING SEALANT.

PROVIDE PIPING SLEEVES AT FLOORS, WALLS & ROOFS IN NEW CONSTRUCTION. EXISTING WALLS TO BE SAW CUT TO PASS NEW PIPING.

PIPING SHALL NOT BE RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR ABOVE THE ACCESS SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.

PIPING SHALL BE PITCHED FOR DRAINAGE.

CLOSE OPEN ENDS OF PIPING DURING CONSTRUCTION.

MECHANICAL JOINT PIPING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

GAS PRESSURE REGULATORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE VALVED GAUGE TAPS UPSTREAM AND DOWNSTREAM OF THE REGULATOR. VENT PIPING SHALL BE EXTENDED INDIVIDUALLY FROM EACH REGULATOR AND GAS VENTING DEVICE TO OUTSIDE THE BUILDING IN AN APPROVED LOCATION.

SUPPORT PIPING FROM BUILDING STRUCTURE WITH RODS, ANGLES & CLAMPS ATTACHED TO STRUCTURE. HANG PIPING WITH CLEVIS HANGER OR ROLLER SUPPORTS. HANGERS SHALL BE INSTALLED ON CENTERS AS RECOMMENDED BY MANUFACTURER.

CLEAN INTERIOR WATER PIPING AFTER INSTALLATION BY FLUSHING WITH CLEAN POTABLE WATER TO CLEAR ALL INTERNAL DEBRIS.

ALL NEW AND EXISTING DOMESTIC WATER PIPING SHALL BE DISINFECTED IN CONFORMANCE WITH AWWA C651-86. DOMESTIC WATER PIPING SHALL BE SANITIZED PRIOR TO PUTTING SYSTEM IN OPERATION BY A COMPANY OR PERSONNEL REGULARLY ENGAGED IN THE PERFORMANCE OF THIS SERVICE.

EXTERIOR NATURAL GAS PIPING SHALL BE PAINTED WITH 2 COATED OF EXTERIOR GRADE PAINT FOR PROTECTION.

TESTING  
DOMESTIC WATER PIPING - 125 PSI FOR MIN. 6 HOURS AT THE LOW POINT IN THE SYSTEM.

NATURAL GAS PIPING - 100 PSI COMPRESSED AIR FOR 6 HOURS.

PIPING SYSTEM			TYPE
DOMESTIC COLD, HOT AND RECIRCULATING WATER			C5
NATURAL GAS ABOVE GROUND AT PRESSURES 5 PSI & LESS			S1, S2, S6
TYPE	DESCRIPTION	TYPE	DESCRIPTION
C5	PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS	S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE F 150 LB. C.I. FITTINGS
S1	WELDED BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E WROUGHT-STEEL WELDING FITTINGS: ASTM A 234/A 234M 150 LB. C.I. FITTINGS	S6	PRESS-FIT BLACK STEEL SCHEDULE 40, ASTM A53 TYPE E CARBON STEEL FITTINGS: ASTM A420 OR ASTM B16.3, ANSI LC-4/CSA 6.32, & ASTM F3226

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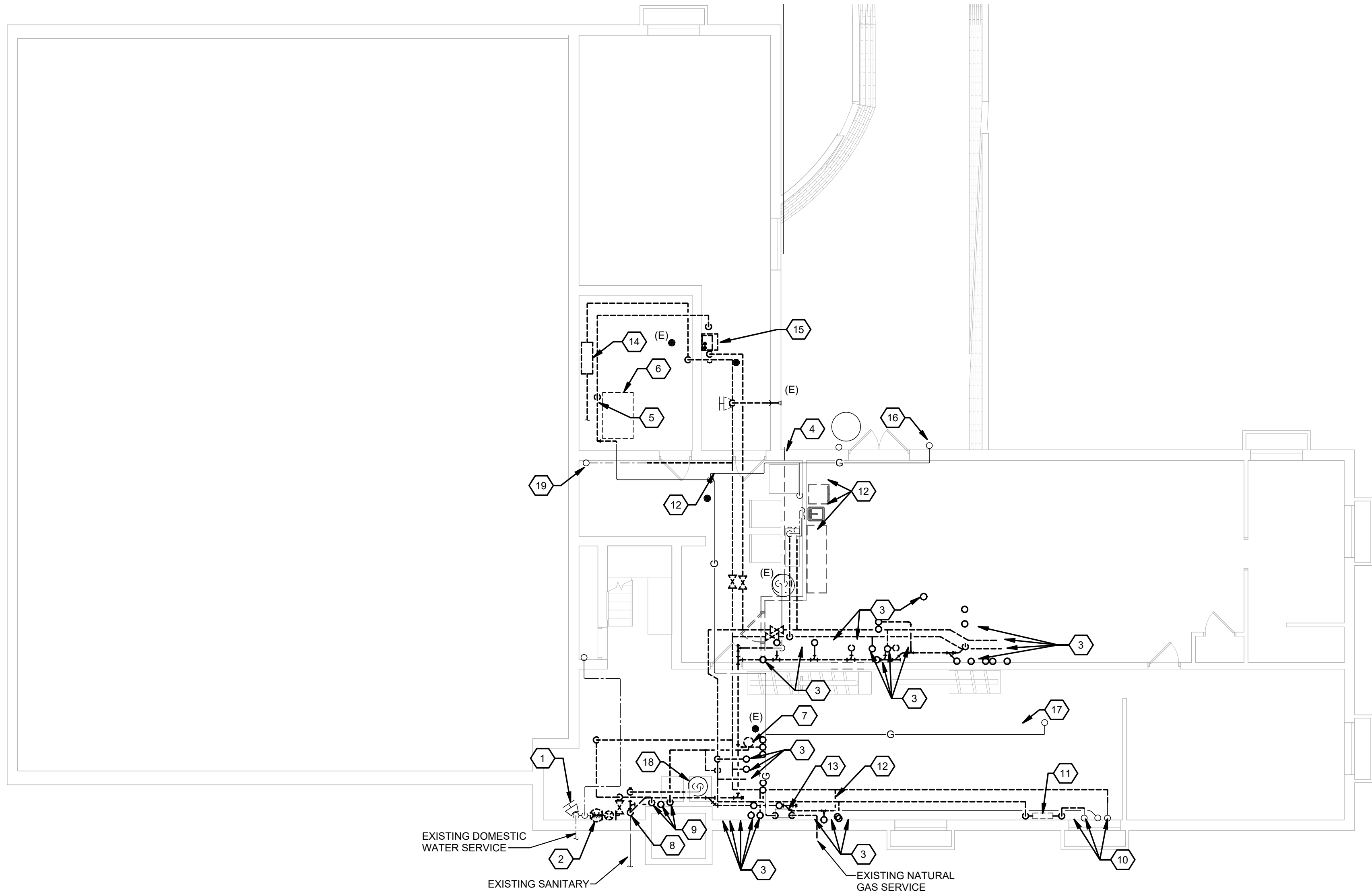
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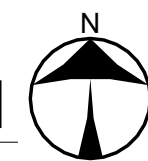
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# BASEMENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



## CONSTRUCTION NOTES

1. REMOVE WATER SERVICE TO SHUTOFF VALVE. REFER TO P2.0
2. REMOVE AND RETAIN WATER METER AND PRESSURE REDUCING VALVE. WATER SERVICE TO BE RECONFIGURED. REFER TO P2.0
3. REMOVE PIPE THROUGH FLOOR. PATCH FLOOR TO MATCH EXISTING CONSTRUCTION.
4. VENT THROUGH WALL TO REMAIN.
5. REMOVE PIPE TO LOCATION INDICATED. REFER TO P2.0.
6. STEAM BOILER REMOVED BY H.C.
7. REMOVE EMERGENCY SHOWER.
8. REMOVE SANITARY TO HUB & SPIGOT WYE AT FOUNDATION WALL. REFER TO P2.0 FOR NEW CONNECTION.
9. REMOVE WASH. AND DRYER PLUMBING ROUGH-IN ON WALL.
10. KITCHEN SINK SUPPLY AND WASTE PIPING THROUGH FLOOR TO REMAIN.
11. REMOVE ELECTRIC INSTANTANEOUS HOT WATER HEATER.
12. REMOVE PIPE TO LOCATION INDICATED. REFER TO P2.0.
13. GAS SERVICE METER.
14. REMOVE MAKE-UP WATER SERVICE TO STEAM BOILER.
15. REMOVE WATER HEATER.
16. GAS SERVICE UP TO PATIO TO REMAIN.
17. GAS UP TO KITCHEN RANGE TO REMAIN.
18. EXISTING SEWAGE EJECTOR TO REMAIN. REFER TO P2.0 FOR NEW SANITARY PIPING CONNECTION. EXISTING SANITARY CHECK VALVE TO REMAIN.
19. DOMESTIC COLD WATER UP TO APPARATUS BAY TO REMAIN.

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EXPIRATION DATE 12/31/2025

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TITLE  
**BASEMENT DEMOLITION PLAN**

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**NAUMAN & ZELINSKI LLC.**  
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402  
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PROJECT # 24066



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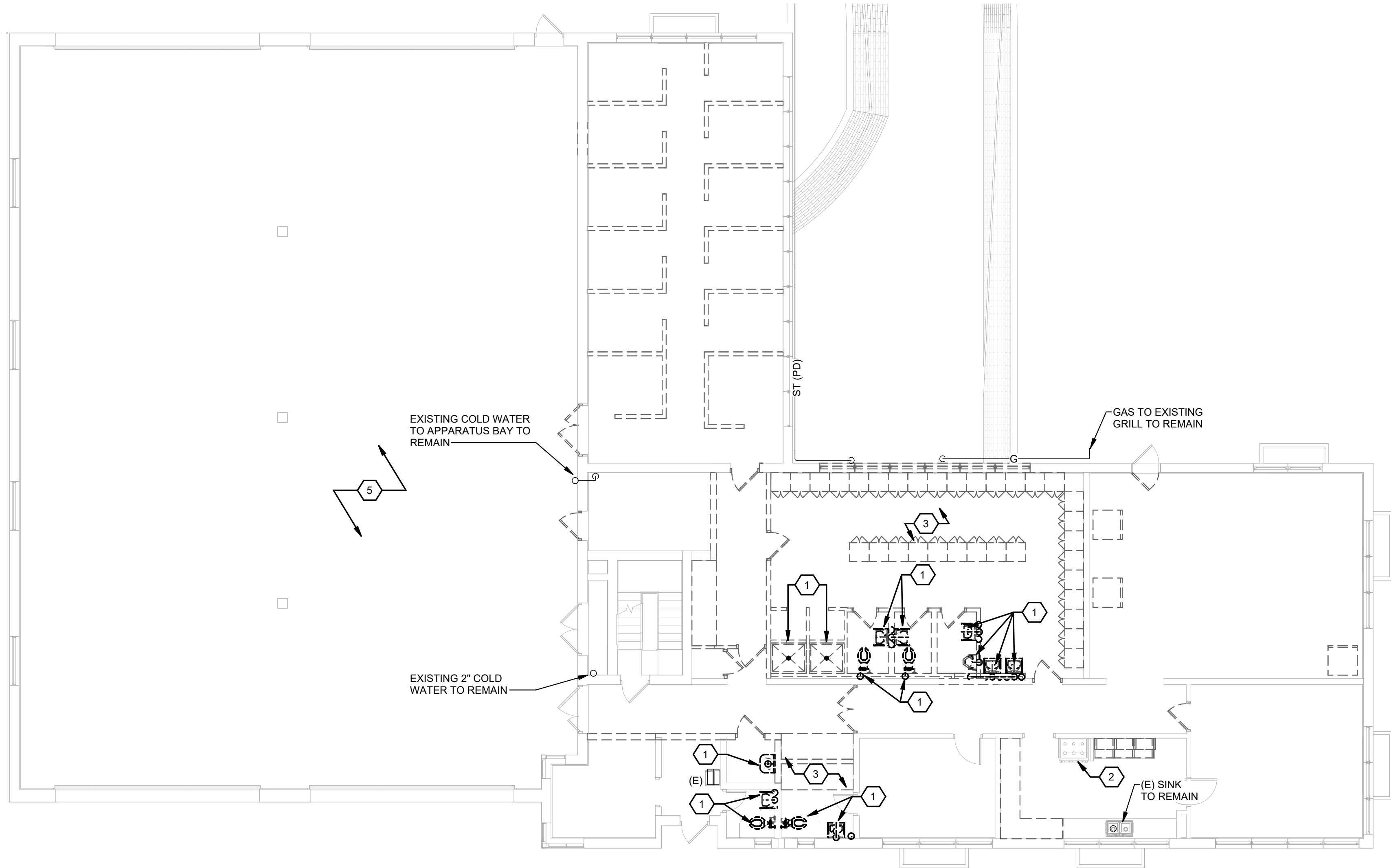
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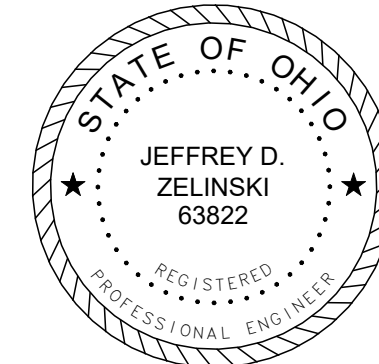
GROUND FLOOR DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"

### CONSTRUCTION NOTES

1. REMOVE PLUMBING FIXTURE, SUPPLY WASTE TO FIXTURE. REFER TO P1.1.
2. DISCONNECT GAS TO RANGE. RETAIN RISER FOR REUSE.
3. TRACE OUT AND REMOVE ALL VENT ABOVE DRYWALL CEILING. REMOVE VENT RISERS THROUGH ROOF, PATCH ROOF TO MATCH EXISTING CONSTRUCTION.
4. EXISTING FIRE HOSE CONNECTION TO REMAIN.
5. ALL EXISTING DOMESTIC WATER PIPING IN APPARATUS BAY TO REMAIN.

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EXPIRATION DATE 12/31/2025

CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT  
STATION 16**

4111 Kings Highway, Dayton, Ohio, 45406

#### ISSUE

NO.	DATE	DESCRIPTION
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08/01/2025 FOR CONSTRUCTION

DATE 08/01/2025

JOB NO. 4284.01

DRAWN DEG

CHECKED JDZ

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TITLE  
**FIRST FLOOR  
DEMOLITION PLAN**

SHEET NO.

**P1.1**

**NAUMAN & ZELINSKI LLC.**  
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402  
Phone: (937) 233-3821  
PROJECT # 24066



CONSTRUCTION NOTES

1. RE-BUILT WATER SERVICE. SEE DETAIL THIS SHEET.
2. NEW WATER SERVICE BACKFLOW PREVENTER. SEE DETAIL THIS SHEET. PIPE DISCHARGE TO EXISTING SUMP.
3. EXISTING SUMP PUMP TO REMAIN. NO WORK REQUIRED.
4. DROP (@ 45°) PUMPED DISCHARGE INTO SANITARY.

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JEFFERY D. ZELINSKI, LICENSE #63822  
EXPIRATION DATE 12/31/2025

CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT  
STATION 16**

4111 Kings Highway, Dayton, Ohio, 45406

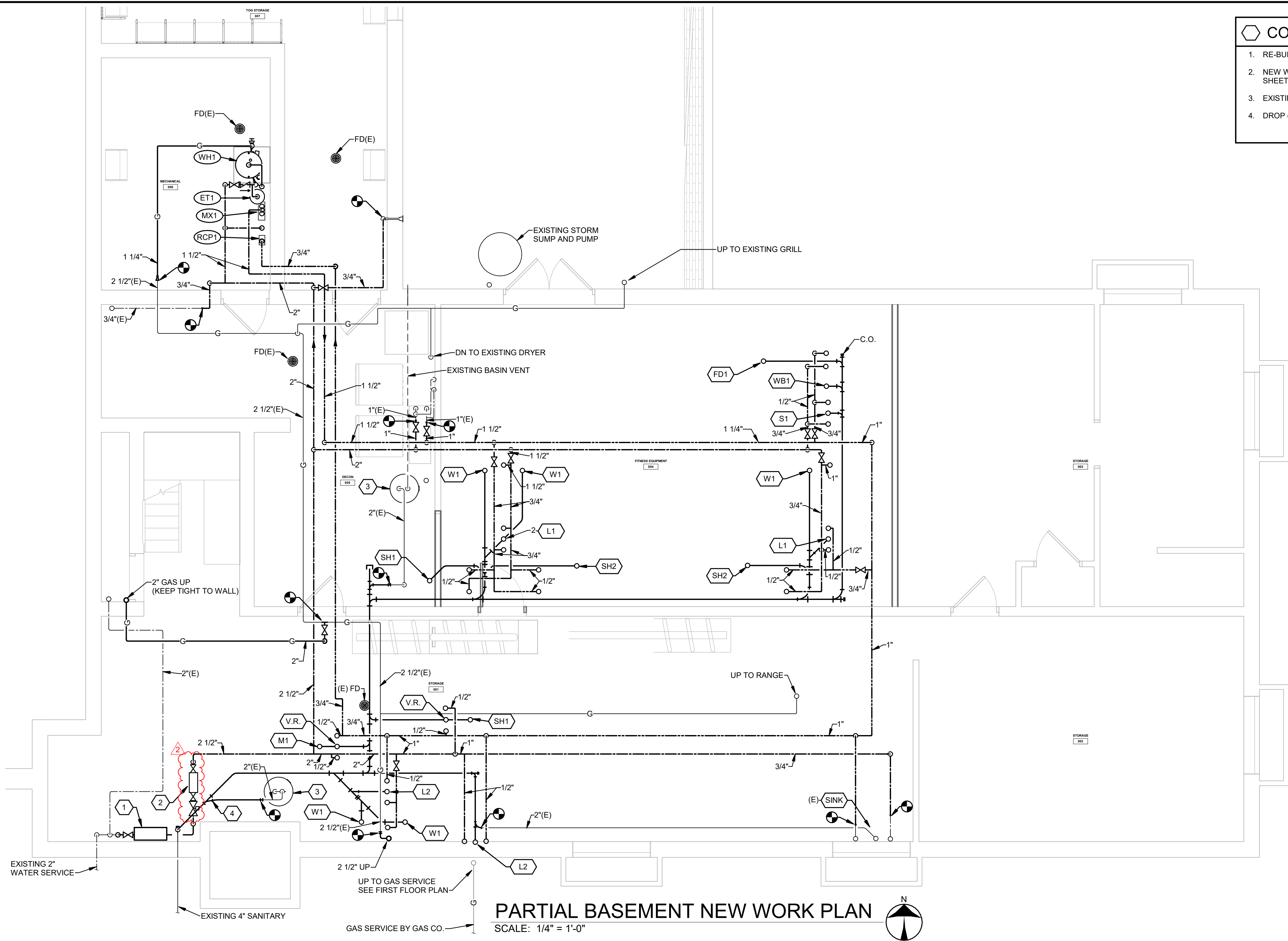
ISSUE		
NO.	DATE	DESCRIPTION
1	08/01/2025	FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
JOB NO.	4284.01
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TITLE  
**BASEMENT NEW WORK  
PLAN**

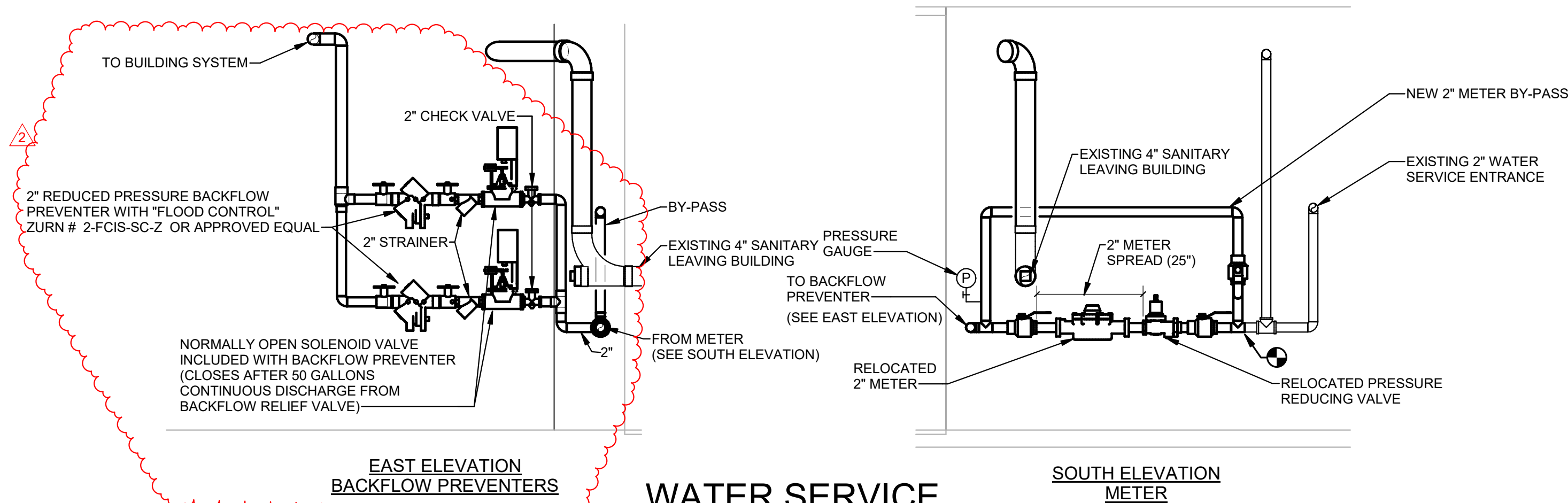
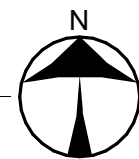
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**P2.0**



**PARTIAL BASEMENT NEW WORK PLAN**

SCALE: 1/4" = 1'-0"



**WATER SERVICE**

N.T.S.

**SOUTH ELEVATION  
METER**



SCALE: 1/4"=1'-0"

NAUMAN & ZELINSKI LLC.  
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402  
Phone: (937) 223-3851  
PROJECT # 24066



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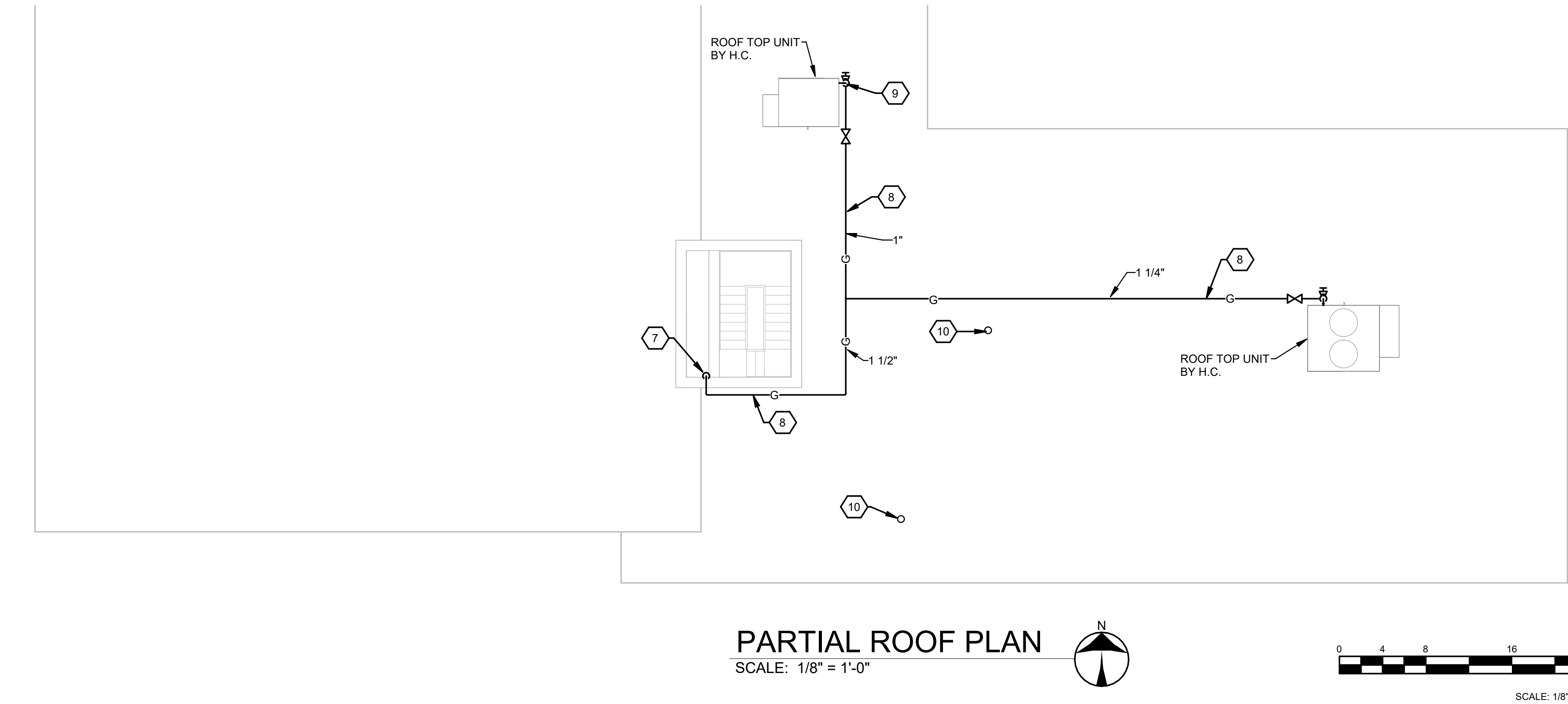
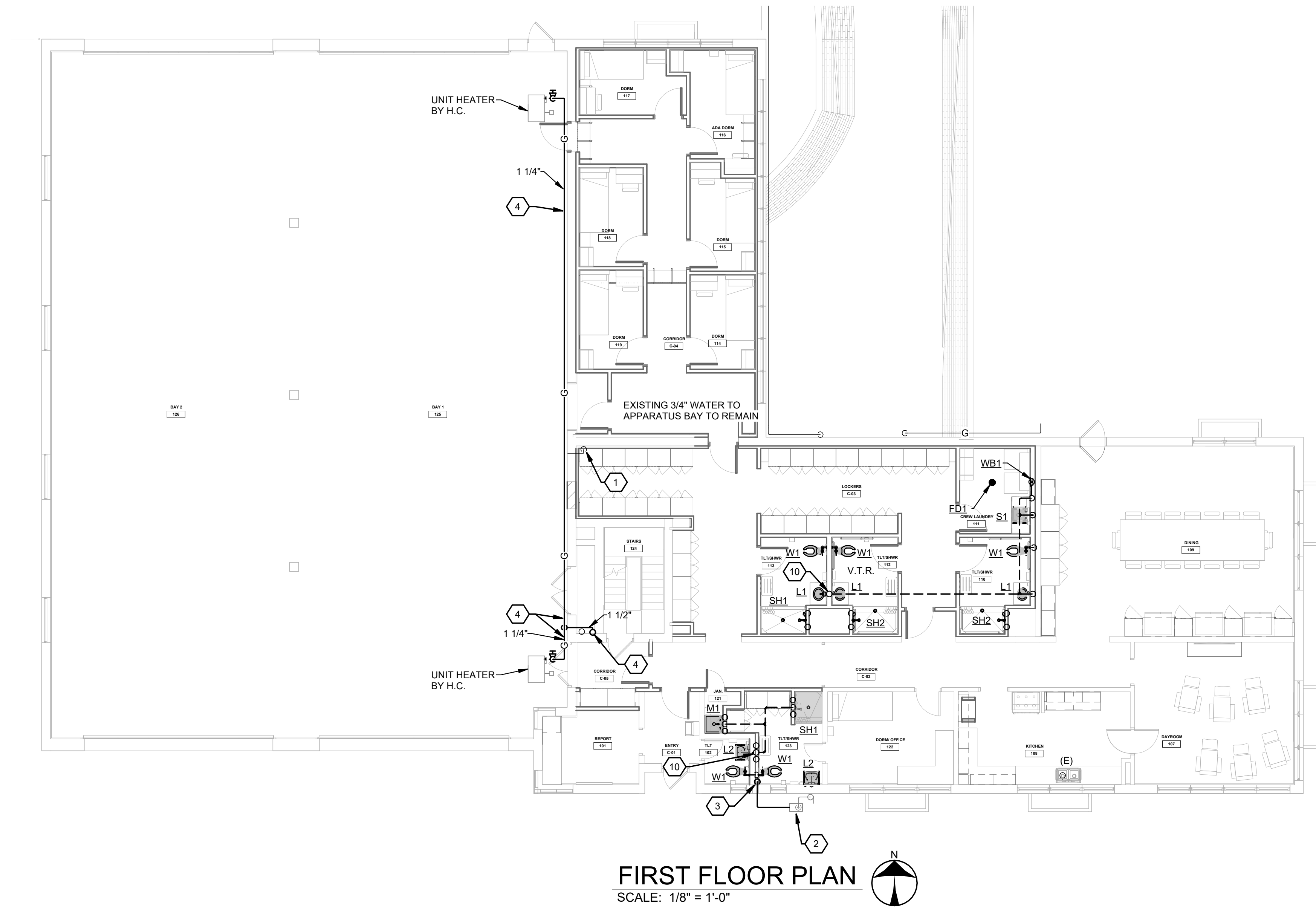
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## CONSTRUCTION NOTES

1. EXISTING 3/4" WATER TO APPARATUS BAY TO REMAIN.
2. NEW GAS REGULATOR AND METER SETTING BY GAS COMPANY. CONNECT TO OUTLET. SEE DETAIL SHEET P3.1.
3. EXTEND NEW 2 1/2" GAS INTO BUILDING AND DROP IN WALL TO BASEMENT. SEAL PENETRATION IN EXTERIOR WALL WATER TIGHT.
4. 2" NATURAL GAS FROM BASEMENT, 1 1/2" UP ROOF. KEEP PIPING TIGHT TO WALL.
5. NATURAL GAS PIPING HIGH IN APPARATUS BAY.
6. DROP NATURAL GAS AND CONNECT TO UNIT HEATER. PROVIDE VALVE, FULL SIZE DIRT LEG, AND UNION. SEE NATURAL GAS CONNECTION DETAIL SHEET P3.1.
7. 1 1/2" NATURAL GAS FROM BELOW. EXTEND THRU WALL TO ROOF. SEAL PENETRATION IN EXTERIOR WALL WATER TIGHT.
8. NEW NATURAL GAS PIPING RUNNING ACROSS ROOF. PROVIDE PING SUPPORT (SPACED SAMES AS PIPE HANGER) MIFAB # CR10-3 OR APPROVED EQUAL.
9. CONNECT NATURAL GAS TO ROOF TOP UNIT. PROVIDE VALVE, FULL SIZE DIRT LEG, AND UNION. SEE NATURAL GAS CONNECTION DETAIL SHEET P3.1.
10. NEW VENT THRU ROOF.

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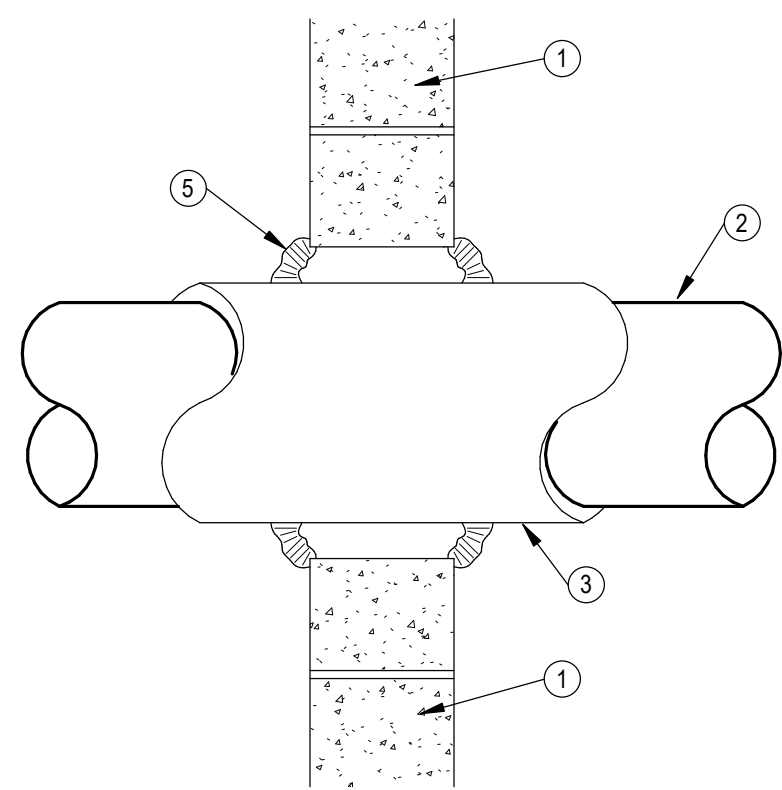
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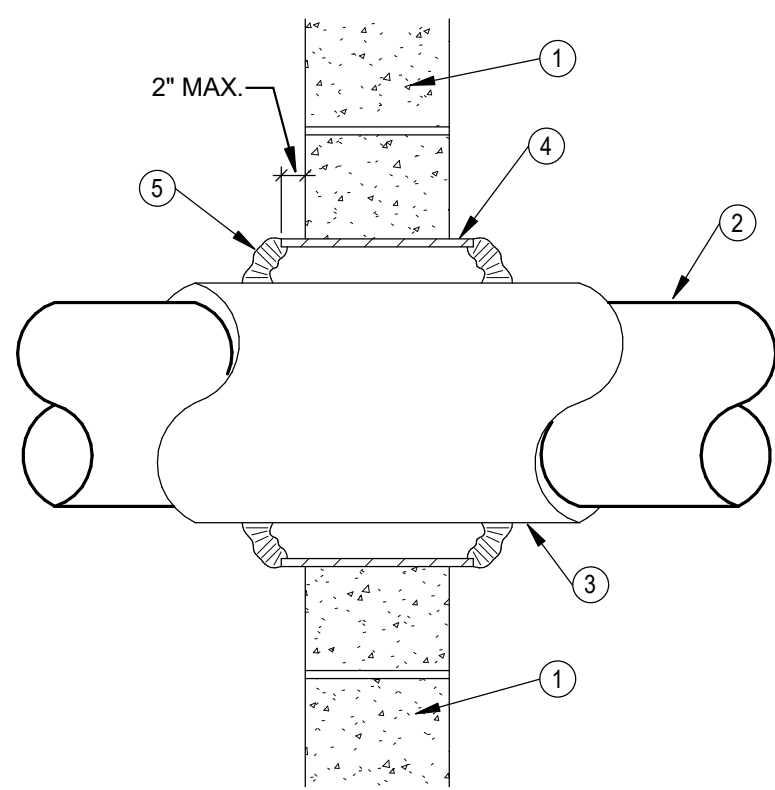
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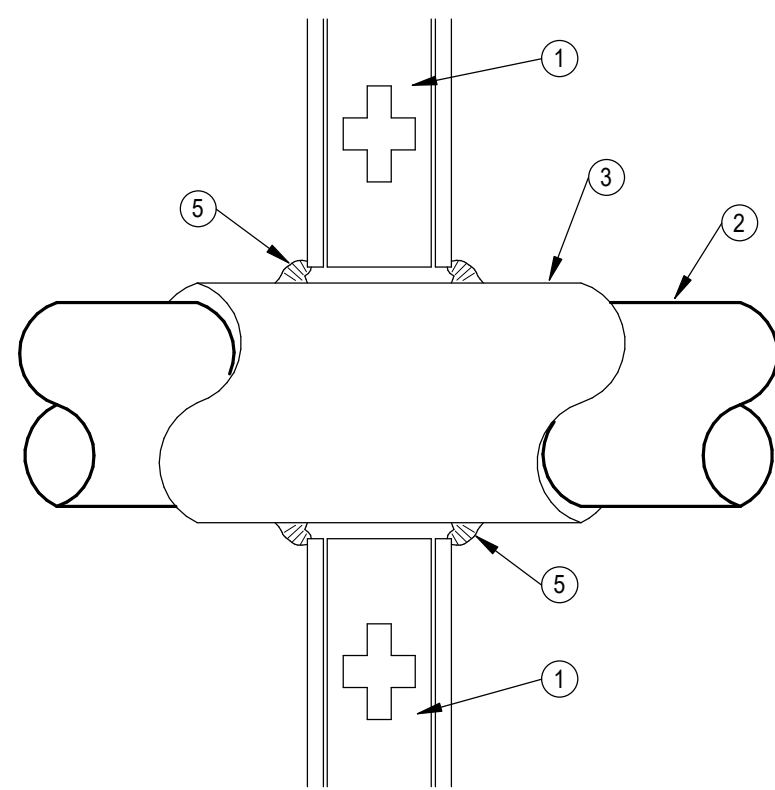
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CONCRETE/MASONRY CONSTRUCTION  
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION  
2" AND LARGER PIPES



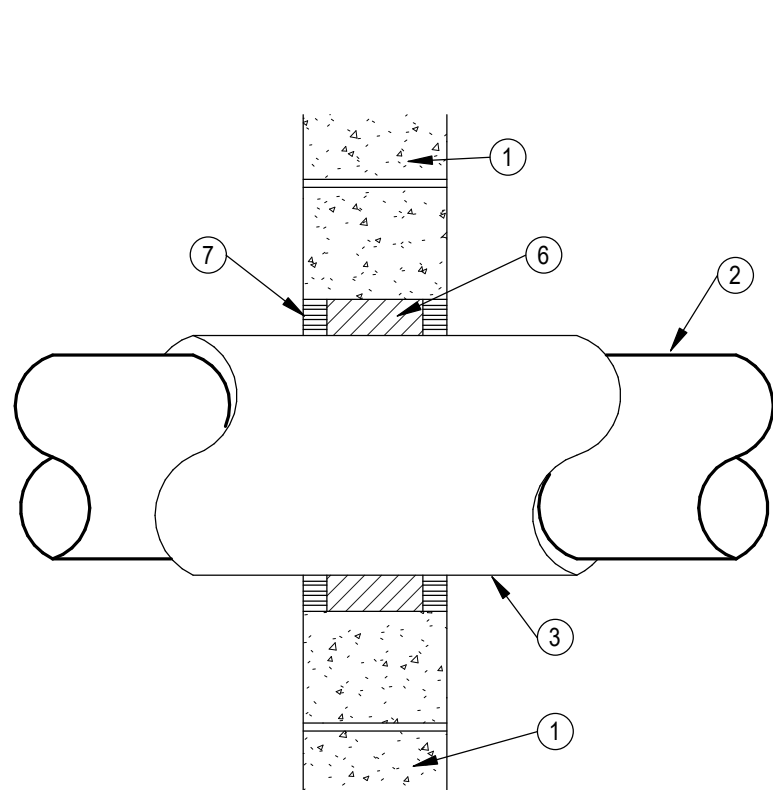
GYPSUM CONSTRUCTION  
ALL PIPE SIZES

GENERAL NOTE:

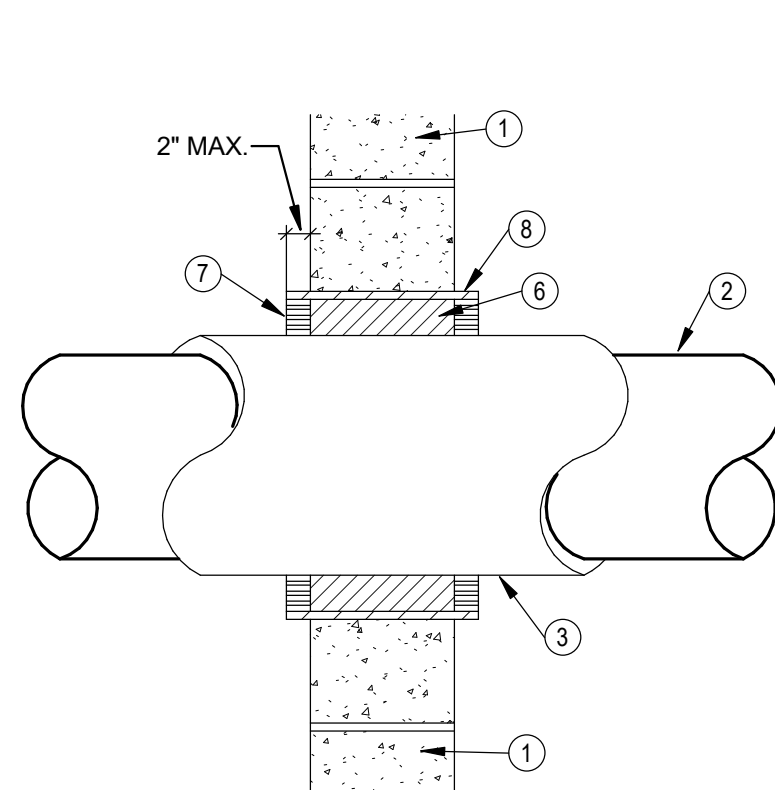
A. SLEEVES ARE NOT REQUIRED IN THE FOLLOWING:

- IN FLOOR SLABS ON GRADE.
  - IN STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS WHICH ARE NOT FIRE RATED.
  - FOR UNINSULATED PIPE PASSING THRU MASONRY WALLS AND PARTITIONS AND STUD AND GYPSUM BOARD OR PLASTER WALLS AND PARTITIONS. SLEEVES ARE REQUIRED HOWEVER, FOR UNINSULATED CONDENSER WATER PIPING AND HYDRONIC HEAT PUMP PIPING FOR WHICH EXPANSION, CONTRACTION AND OTHER PIPE MOVEMENT CAN BE EXPECTED.
  - IN CORE DRILLED OPENINGS IN SOLID CONCRETE NOT REQUIRING WATER PROTECTION. SLEEVES ARE REQUIRED, HOWEVER, AT CORE DRILLING THRU HOLLOW PRE-CAST SLABS AND CONCRETE BLOCK WALLS, TO FACILITATE CONTAINMENT OF REQUIRED FIRESTOPPING MATERIAL.
  - IN LARGE FLOOR OPENINGS FOR MULTIPLE PIPE AND DUCT RISERS WHICH ARE WITHIN A FIRE RATED SHAFT, UNLESS THE OPENING IS TO BE CLOSED OFF WITH CONCRETE OR OTHER MATERIAL AFTER PIPE ARE SET.
- B. WHERE UNINSULATED PIPES REQUIRING NO PIPE SLEEVES PASS THRU NON-FIRE RATED FLOOR, WALL OR PARTITION, THE ANNULAR SPACE SHALL BE CLOSED WITH MATERIAL AND METHODS COMPATIBLE WITH THE WALL OR PARTITION MATERIAL (TYPE M MASONRY GROUT, DRYWALL JOINT COMPOUND, PLASTER, ETC.).

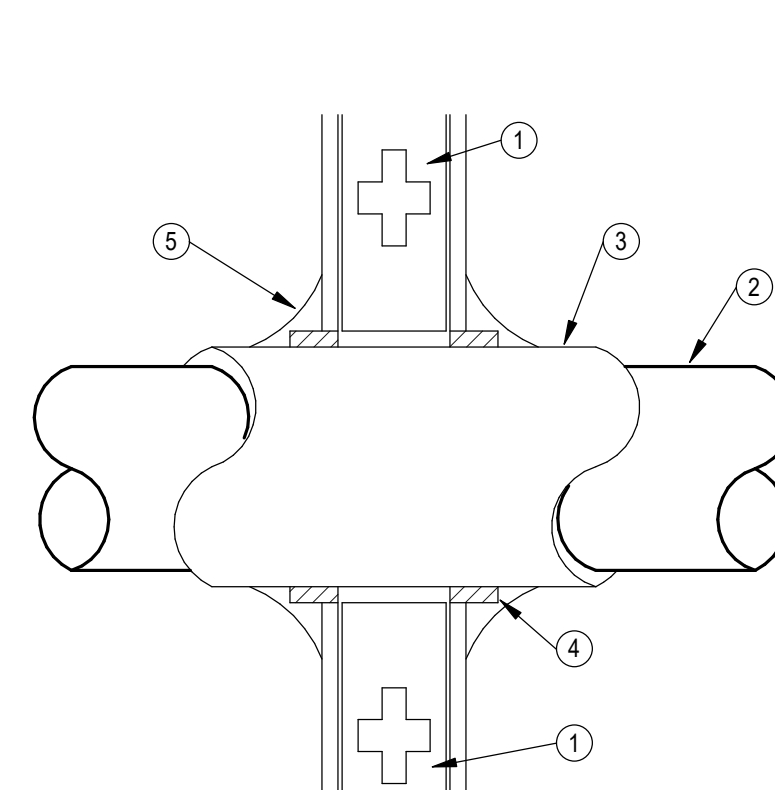
2 PIPE PENETRATIONS THRU NON-RATED WALL  
N.T.S.



CONCRETE/MASONRY CONSTRUCTION  
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION  
2" AND LARGER PIPES



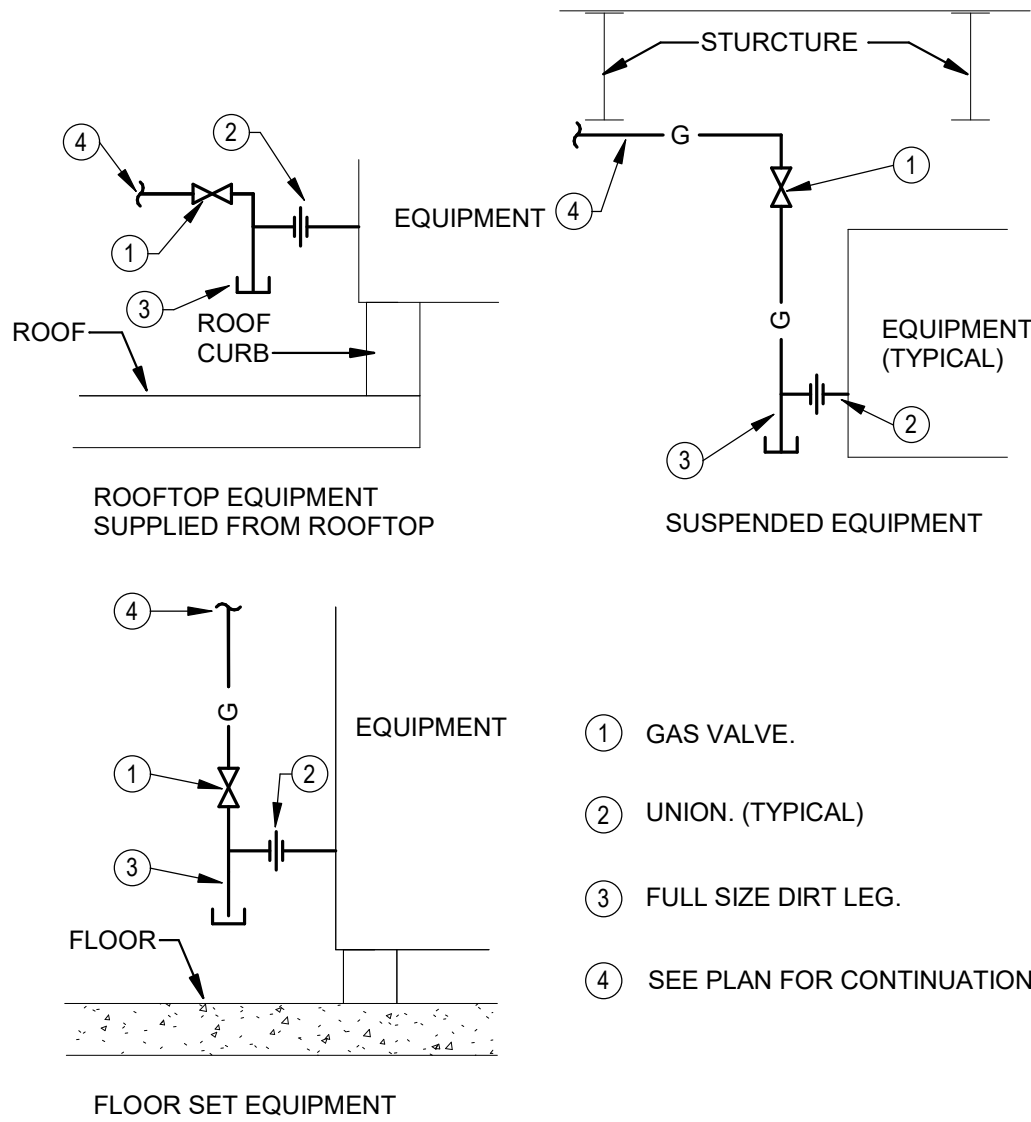
GYPSUM CONSTRUCTION  
ALL PIPE SIZES

FIRESTOPPING MATERIALS/INSTALLATION

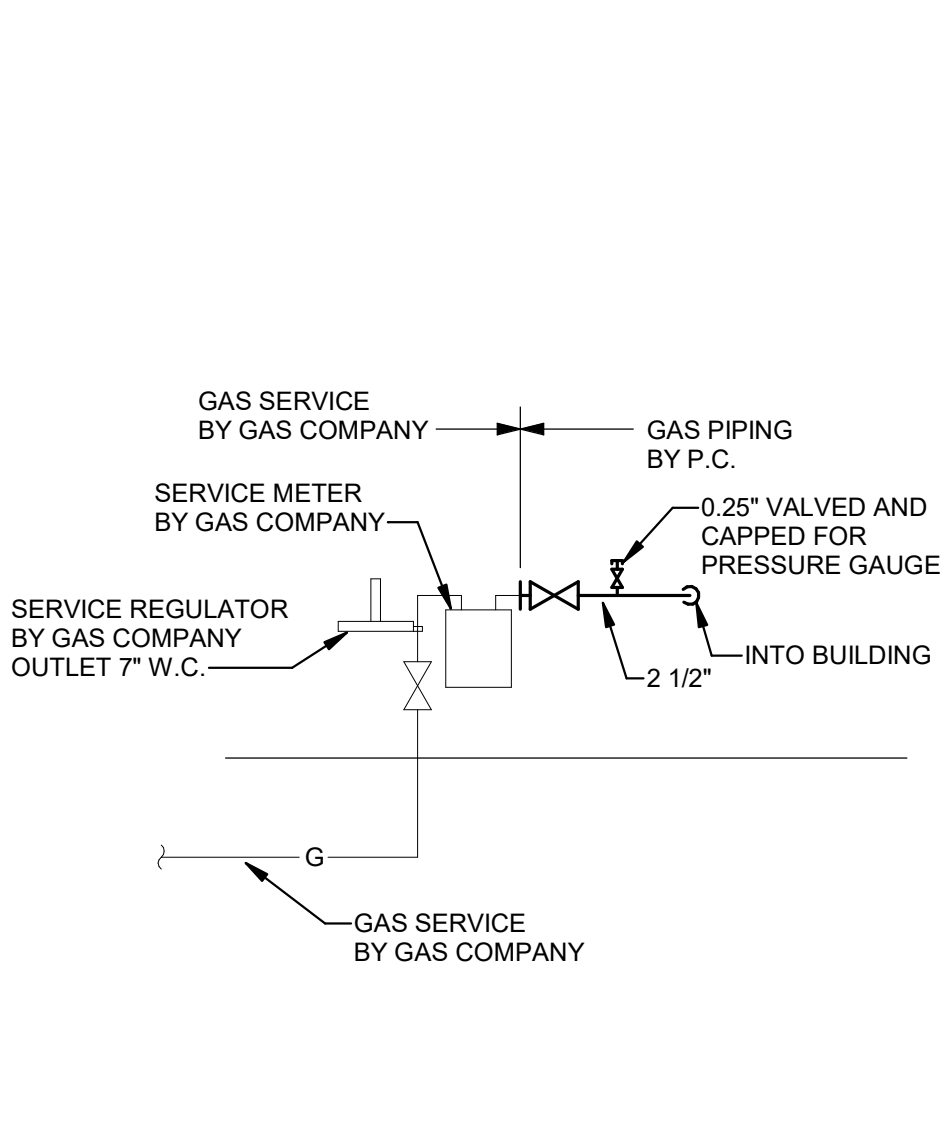
- MANUFACTURERS: 3M FIRE PROTECTION PRODUCTS HILTI FIRESTOP SYSTEMS
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

- 1 RATED WALL ASSEMBLY.
- 2 METALLIC PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING, SEE SCHEDULE FOR THICKNESS.
- 4 APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
- 5 APPROVED FIRESTOPPING CAULK OR SEALANT.
- 6 PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
- 7 APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
- 8 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.

1 PIPE PENETRATIONS THRU FIRE RATED WALL  
N.T.S.



5 NATURAL GAS CONNECTION DETAIL  
N.T.S.



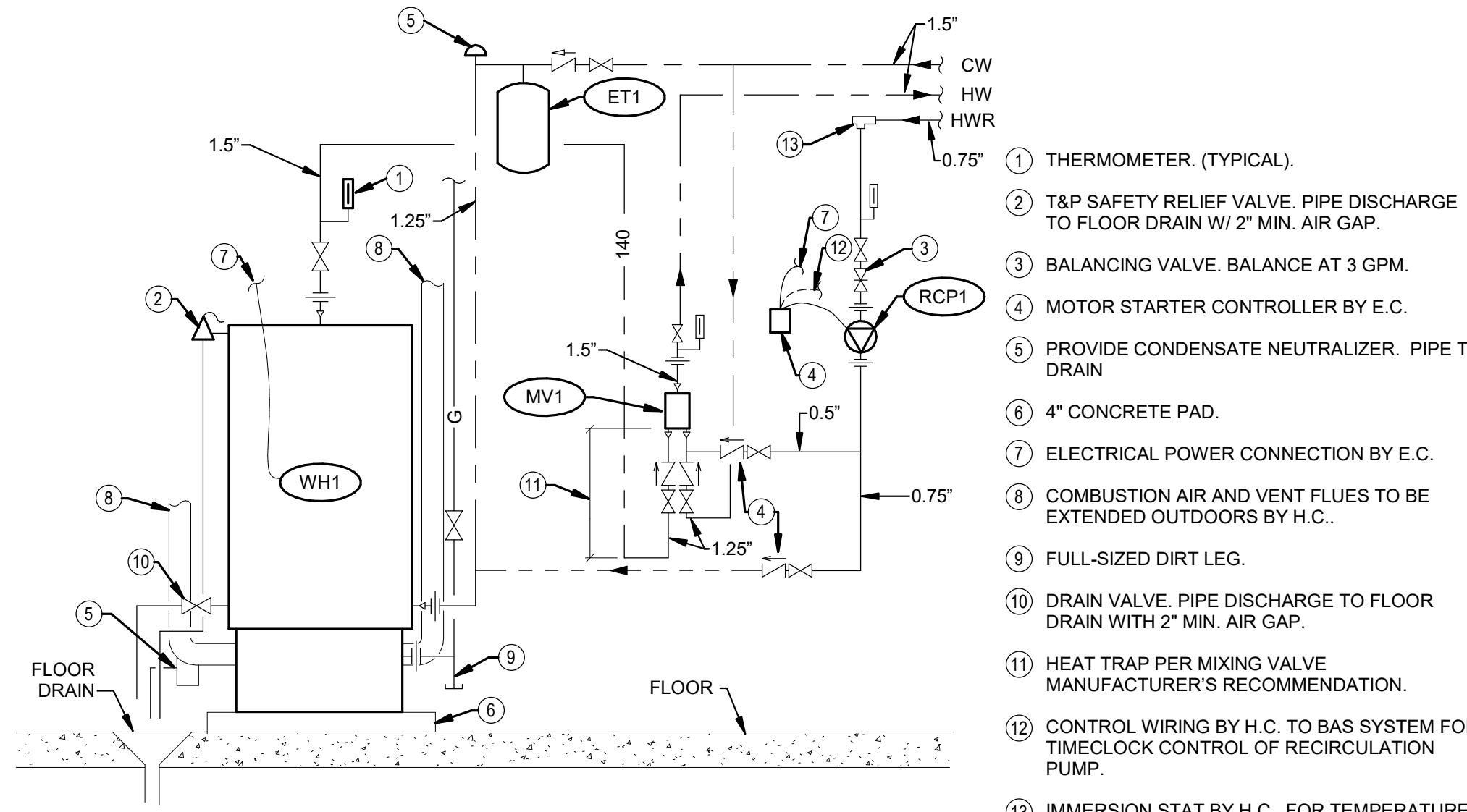
4 GAS SERVICE RISER  
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GAS LOAD SCHEDULE

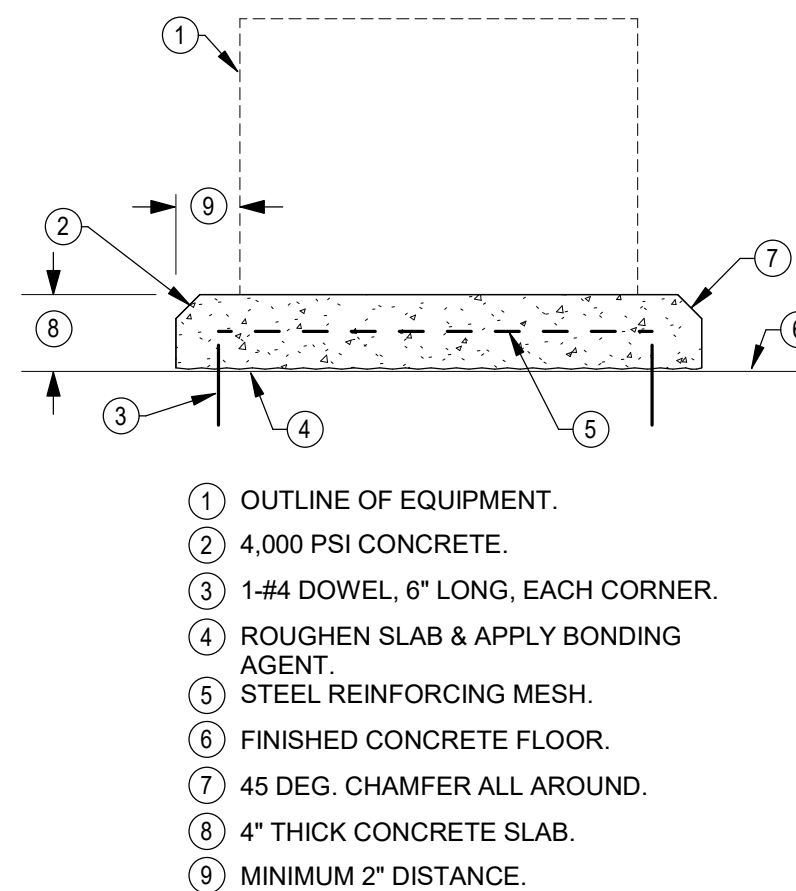
GENERAL NOTES  
• PIPING SIZED USING THE LONGEST LENGTH METHOD.  
• LOW PRESSURE (7" W.C.) GAS PIPING SIZED USING TABLE 402.4(2) OF THE 2021 IFC.

ITEM	LOAD	
GUH-1 GAS FIRED UNIT HEATER	175	CFH
GUH-2 GAS FIRED UNIT HEATER	175	CFH
RTU-1 ROOFTOP UNIT	80	CFH
RTU 2 ROOFTOP UNIT	200	CFH
WATER HEATER	199	CFH
EXISTING RANGE	219	CFH
EXISTING GAS DRYER	22	CFH
EXISTING GAS GRILL	75	CFH
<b>TOTAL</b>	<b>1,145</b>	<b>CFH</b>

- WH1 WATER HEATER #1  
GAS FIRED TANK TYPE HEATER W/ ST. ST. TANK AND HEAT EXCHANGER.  
STORAGE - 50 GALLONS NOM.  
RECOVERY - 253 GPH @ 90°F RISE  
INPUT - 199,000 CFH  
GAS PRESSURE - 7" W.C.  
ELECTRICAL - 120V 1 PH  
BASIS OF DESIGN - A.O.SMITH # GTP 199 OR APPROVED EQUAL.
- RCP1 HOT WATER RECIRC. PUMP #1  
CAPACITY - 3 GPM @ 5 FT. HD  
ELECTRICAL - 120V/1PH, 0.4 AMPS  
BASIS OF DESIGN - B&G # NBF-9U/LW OR APPROVED EQUAL.
- MV1 120" HOT WATER DIGITAL MIXING VALVE  
CAPACITY - 50 GPM @ 5 PSI LOSS  
MINIMUM FLOW - 3 GPM  
BASIS OF DESIGN - POWERS INTELLISTATION 2 # ISO2100VL  
SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS AND ADDITIONAL MANUFACTURERS.
- ET1 EXPANSION TANK  
BASIS OF DESIGN - AMTROL # 12C OR EQUAL.



3 DOMESTIC WATER HEATER  
N.T.S.



- 1 OUTLINE OF EQUIPMENT.
- 2 4,000 PSI CONCRETE.
- 3 1-#4 DOWEL, 6" LONG, EACH CORNER.
- 4 ROUGHEN SLAB & APPLY BONDING AGENT.
- 5 STEEL REINFORCING MESH.
- 6 FINISHED CONCRETE FLOOR.
- 7 45 DEG. CHAMFER ALL AROUND.
- 8 4" THICK CONCRETE SLAB.
- 9 MINIMUM 2" DISTANCE.

NOTE: OVERALL DIMENSION TO BE DETERMINED BY CONTRACTOR.

6 INTERIOR CONCRETE EQUIPMENT PAD  
N.T.S.

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JEFFREY D. ZELINSKI  
63822  
REGISTERED PROFESSIONAL ENGINEER  
JEFFREY D. ZELINSKI, LICENSE #63822  
EXPIRATION DATE 12/31/2025

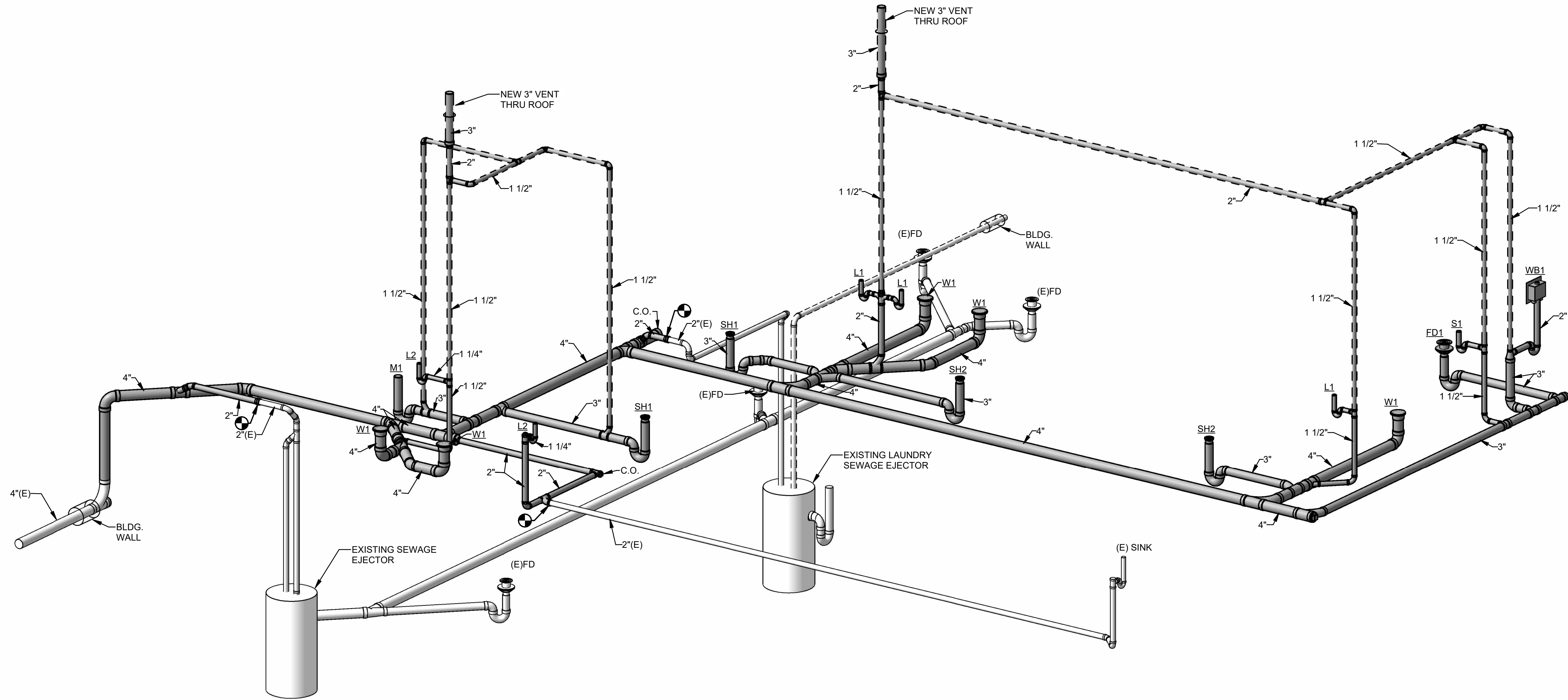
CITY OF DAYTON  
DAYTON FIRE DEPARTMENT  
STATION 16  
4111 Kings Highway, Dayton, Ohio 45406

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NO. DATE DESCRIPTION  
08/01/2025 FOR CONSTRUCTION  
2 10/08/2025 ADDENDUM 2

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## GENERAL HVAC REMOVAL NOTES

- A. GENERAL - THIS REMOVAL PLAN HAS BEEN MADE TO ASSIST THE CONTRACTOR IN DETERMINING GENERAL SCOPE OF REMOVALS. THESE DRAWINGS SHALL NEITHER BE CONSIDERED AS SHOWING ALL REMOVAL ITEMS NOR SHALL IT BE CONSIDERED A SUBSTITUTE FOR A THOROUGH SITE INVESTIGATION. NO ALLOWANCE SHALL BE MADE FOR LACK OF KNOWLEDGE CONCERNING EXISTING SITE CONDITIONS. ALL PIPE AND/OR DUCTWORK SHALL BE MADE CONTINUOUS TO ANY ACTIVE EQUIPMENT PAST THE ITEM(S) BEING REMOVED.
- B. GENERAL REMOVALS - THE HVAC CONTRACTOR IS TO REMOVE ALL EXISTING, ACCESSIBLE UNUSED OR ABANDONED DEVICES, PIPING, WIRING, DUCTWORK AND SUPPORT HANGERS OR STRUCTURES TOTALLY BACK TO SOURCE. IN NO CASE SHALL ANY ABANDONED PIPING, WIRING, DUCTWORK, OR EQUIPMENT REMAIN WITHIN THE CONSTRUCTION AREA OR IN ADJACENT AREAS TO MECHANICAL ROOMS OR CLOSETS. ONLY ITEMS THAT ARE INACCESSIBLE SHALL BE ALLOWED TO BE ABANDONED IN PLACE WITH ALL ACCESSIBLE SERVICES APPROPRIATELY CAPPED.
- C. SUPPORTS REMOVALS - ALL SUPPORTS SHALL BE REMOVED ENTIRELY FROM DEMOLISHED PIPING, DUCTWORK AND EQUIPMENT. REMAINING ACTIVE PIPING, DUCTWORK, ETC. SHALL BE RE-SUPPORTED AS REQUIRED WHERE EXISTING SUPPORTS ARE REMOVED, AS IN THE CASE OF DUCTWORK OR PIPING, WHICH IS BEING REMOVED OR WHERE EXISTING SUPPORTS/LOCATION CONFLICTS WITH NEW UTILITIES. NEW SUPPORTS SHALL UTILIZE APPROVED AND RECOGNIZED MATERIALS AND METHODS AND BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS.
- D. WALL REMOVALS - RECESSED DEVICES TO BE ABANDONED IN EXISTING WALLS WHICH ARE TO REMAIN IN FINISHED AREAS SHALL BE COVERED BY SUITABLE BLANK COVER PLATES AND PAINTED TO MATCH FINISH. WHERE REMOVALS ARE COMPLETELY REMOVED FROM FACE OF WALL, PATCH WALL CONSISTENT WITH ADJACENT FINISH. SURFACE MOUNTED REMOVED DEVICES SHALL HAVE SURFACE REPAIRED AND FINISHED TO MATCH ADJACENT EXISTING OR NEW ARCHITECTURAL FINISHES.
- E. ROOF REMOVALS - DEVICES, SERVICES, SUPPORTS & EQUIPMENT REMOVED FROM ROOF SHALL BE REMOVED. THE HVAC CONTRACTOR SHALL ENGAGE A ROOFING CONTRACTOR TO PATCH THE ROOFING CONSISTENT WITH THE EXISTING ROOF WARRANTY.
- F. ABANDONED SERVICES - ALL INACTIVE DUCT AND PIPE ABOVE CEILINGS SHALL BE REMOVED IN ENTIRETY AND CAPPED AT NEAREST ACTIVE MAINS.
- G. EQUIPMENT REMOVAL/DISPOSAL COORDINATION - COORDINATE REMOVAL ITEMS CLOSELY WITH OWNER. ANY ITEMS REMOVED WITHIN THE CONSTRUCTION AREA SHALL BE TURNED OVER TO THE OWNER IN GOOD CONDITION WHEN INDICATED HEREIN OR WHEN SO REQUESTED BY THE OWNER. ALL OTHERS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND WILL BE REQUIRED TO BE DISPOSED OF ACCORDINGLY. DISPOSAL SHALL BE REGULATED BY EPA SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST REQUIREMENTS AND DOCUMENTED.
- H. PROTECTION - EXISTING MATERIALS AND FINISHES ARE TO BE PROTECTED AND RESTORED TO MATCH ADJACENT FINISHES. PROVIDE ADEQUATE PROTECTION TO ALL EXPOSED SURFACES AND EQUIPMENT WITHIN THE REMOVAL AREA.
- I. ACTIVE EQUIPMENT & SERVICES - ANY EXISTING EQUIPMENT OR DEVICES TO REMAIN IN ADJACENT SPACES MADE INACTIVE BY REMOVAL OF DEVICES OR WIRING WITHIN THE CONSTRUCTION AREA SHALL BE RE-FED AS REQUIRED TO MAKE DEVICES OR EQUIPMENT OPERATIONAL.
- J. DAMAGED SERVICES & INSULATION - EXISTING PIPING & DUCTWORK TO REMAIN WITH DAMAGED INSULATION ENCOUNTERED IN AREAS OF WORK SHALL HAVE DAMAGED INSULATION REMOVED AND REPLACED WITH NEW. INSULATION THICKNESS SHALL MATCH EXISTING CONDITION. WORK TO BE PERFORMED ON A TIME AND MATERIAL BASIS AS ENCOUNTERED. SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- K. OPENINGS & PATCHING - WHERE DUCTWORK, PIPING, EQUIPMENT, OR AIR DEVICES ARE REMOVED THROUGH WALLS, FLOORS, CEILINGS AND ROOF, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND FINISH CONSISTENT WITH THE EXISTING OR NEW ARCHITECTURAL FINISHES FOR THAT AREA. OPENINGS OR HOLES EXPOSED TO EXTERIOR CONDITIONS SHALL BE MADE WEATHER-TIGHT AND WATERPROOF AND CONSISTENT WITH ADJACENT WALL FINISHES. PATCHING AND SEALING TO BE CONSISTENT WITH FIRE AND SMOKE STOPPING AND RATING.
- CMU WALLS - GROUT SMALL PENETRATIONS CLOSED. TOOTH IN WITH NEW BLOCKING FOR LARGE HOLES.  
BRICK WALLS - TOOTH IN WITH NEW BRICK  
GYPSUM BOARD WALLS - REPLACE WITH NEW GYPSUM BOARD  
STRUCTURAL METAL ROOF/FLOOR DECKING - REPLACE WITH NEW DECKING, SAME AS EXISTING SIZE  
CONCRETE FLOORS/WALLS - GROUT PENETRATIONS CLOSED  
WOOD FLOORS/WALLS - PATCH CONSISTENT WITH WOOD TYPE
- L. ASBESTOS REMOVALS - ANY MATERIAL SUSPECTED OF CONTAINING ASBESTOS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL IMMEDIATELY BE REPORTED TO OWNER AND PROJECT MANAGER. ALL WORK IN THAT AREA SHALL CEASE UNTIL DEEMED SAFE.
- M. CEILING REMOVALS - THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, STORAGE AND RE-INSTALLATION OF CEILING GRID AND TILES AS REQUIRED FOR WORK. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENTS, IF DAMAGED.

## GENERAL NOTES - HVAC

1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

## GENERAL REQUIREMENTS - HVAC

1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
2. PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
5. EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM. MAINTAIN ANY REMAINING ROOF WARRANTY.
6. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
7. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
8. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
9. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
10. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
11. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
12. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
13. PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
14. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
15. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
16. PROVIDE WARRANTY FOR ALL WORKMANSHIP. EQUIPMENT AND MATERIAL WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR. PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
17. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 16 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.

## TEMPERATURE CONTROLS LEGEND

### ABBREVIATIONS

A.I. - ANALOG INPUT  
A.O. - ANALOG OUTPUT  
AFMS - AIR FLOW MEASURING STATION  
BAS - BUILDING AUTOMATION SYSTEM  
DDC - DIRECT DIGITAL CONTROLS  
D.I. - DIGITAL INPUT  
D.O. - DIGITAL OUTPUT  
ECM - ELECTRICALLY COMMUTATE MOTOR  
E.W.T. - ENTERING WATER TEMPERATURE  
L.W.T. - LEAVING WATER TEMPERATURE  
M.C. - MASTER CONTROLLER  
N.O. - NORMALLY OPEN  
N.C. - NORMALLY CLOSED  
SCR - SILICON CONTROLLED RECTIFIER  
VFD - VARIABLE FREQUENCY DRIVE

### SENSORS & TRANSMITTERS

- ① TEMPERATURE SENSOR
- ② HUMIDITY SENSOR
- ③ COMBINATION TEMPERATURE & HUMIDITY SENSOR
- ④ COMBINATION TEMPERATURE & CARBON DIOXIDE SENSOR
- ⑤ PRESSURE SENSOR
- ⑥ NITROGEN DIOXIDE (NO<sub>2</sub>) SENSOR
- ⑦ CARBON DIOXIDE (CO<sub>2</sub>) SENSOR
- ⑧ CARBON MONOXIDE (CO) SENSOR
- ⑨ COMBINATION CARBON MONOXIDE & NITROGEN DIOXIDE SENSOR
- ⑩ DIFFERENTIAL PRESSURE SENSOR
- ⑪ ENTHALPY SENSOR
- ⑫ PIPE WELL TYPE TEMPERATURE SENSOR
- ⑬ PIPE WELL TYPE FLOW METER
- ⑭ THERMOSTAT - LINE OR LOW VOLTAGE
- ⑮ HUMIDISTAT
- ⑯ RELAY

### VALVES

- ⑰ MOTORIZED TWO-WAY CONTROL VALVE
- ⑱ MOTORIZED THREE-WAY CONTROL VALVE

### DAMPERS

- ⑲ MOTORIZED CONTROL DAMPER

### OVER-RIDE TIMERS

- ⑳ OVERRIDE TIMER - LINE VOLTAGE
- ㉑ OVERRIDE PUSH BUTTON - DIGITAL SIGNAL

### GAUGES

- ㉒ PRESSURE DIAL GAUGE - REFER TO SPECIFICATION FOR RANGES
  - AIRFLOW UNITS: IN. W.C.
  - WATER UNITS: PSI

### SAFETY DEVICES

- ㉓ WIRED DIRECTLY TO EQUIPMENT STARTER W/ MANUAL RESET
- ㉔ DUCTWORK SMOKE DETECTOR - RELAY & LOW VOLTAGE WIRING TO FAN CONTROLLER BY T.C.
- ㉕ HIGH STATIC SAFETY SWITCH
- ㉖ FLOW SWITCH
- ㉗ FREEZE STAT

## PIPING LEGEND

- INDICATES DIRECTION OF FLOW
- CD — CONDENSATE DRAIN
- L — REFRIGERANT - LIQUID
- S — REFRIGERANT - SUCTION
- HPG — REFRIGERANT - HIGH/LOW PRESSURE GAS
- S/L — REFRIGERANT - SUCTION & LIQUID, 2 PIPES TOTAL
- S/L/HG — REFRIGERANT - SUCTION, LIQUID, & HOT GAS 3 PIPES TOTAL
- FLEXIBLE CONNECTION
- CAP
- CONNECTION, BOTTOM
- CONNECTION, TOP
- CONNECTION, SIDE
- ELBOW, 90°, LONG RADIUS
- ELBOW, 45°, LONG RADIUS
- ELBOW, TURNED UP
- ELBOW, TURNED DOWN
- REDUCER
- UNION, SCREWED
- PIPE HOSE THREAD CONNECTION
- PRESSURE GAUGE
- TEMPERATURE GAUGE
- AIR VENT
  - MV = MANUAL
  - AV = AUTOMATIC

## DUCTWORK LEGEND

- 20/12 RECTANGULAR DUCT FIRST FIGURE IS SIDE SHOWN
- 10"Ø ROUND DUCT DIAMETER INDICATED
- FLEXIBLE FABRIC STEEL DUCT
- INSULATED FLEXIBLE DUCT
- CHANGE OF ELEVATION R = RISE, D = DROP
- ELBOW WITH TURNING VANES
- 20/12 ROUND RUNOUT DUCT TAP TO RECTANGULAR DUCT WITH SPIN-IN FITTING, SEE DETAIL
- 10"Ø ROUND RUNOUT DUCT FITTING IN ROUND DUCT MAIN
- VOLUME DAMPER
- AUTOMATIC CONTROL DAMPER REFER TO CONTROL DIAGRAMS FOR TYPE.
- FIRE DAMPER
- DUCT MOUNTED SMOKE DETECTOR
- SUPPLY DUCT SECTION - RISE, DROP
- RETURN DUCT SECTION - RISE, DROP
- SUPPLY AIR DEVICE S1 SEE SCHEDULE AND DETAIL 8" NECK SIZE 300 = REQUIRED AIR FLOW (CFM)
- TRANSFER AIR DEVICE R1 DEVICE TAG, SEE SCHEDULE AND DETAIL
- RETURN/EXHAUST DEVICE TAG: R=RETURN, E=EXHAUST 300 = REQUIRED AIR FLOW (CFM) DEVICE SIZE AS INDICATED IN AIR DEVICE SCHEDULE
- SIDEWALL AIR DEVICE SEE AIR DEVICE SCHEDULE 24/12 = DEVICE SIZE 300 = AIR FLOW (CFM) 8' 6" = MOUNTING HEIGHT (AFF)
- LINEAR SLOT PLENUM S3 - DEVICE TAG, SEE AIR DEVICE SCHEDULE 6" = ROUND DUCT CONNECTION SIZE 150 = AIR FLOW (CFM) 2 = NO. OF SLOTS
- EXISTING AIR DEVICE REBALANCE TO AIR FLOW INDICATED

## GENERAL LEGEND

- EC ELECTRICAL CONTRACTOR.
- FC FIRE PROTECTION CONTRACTOR.
- GC GENERAL CONTRACTOR.
- HC HVAC CONTRACTOR.
- PC PLUMBING CONTRACTOR.
- TC TEMPERATURE CONTROLS CONTRACTOR.
- NIC NOT IN CONTRACT.
- AFF ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
- (E) EXISTING.
- ES EQUIPMENT SUPPLIER.
- EM EMERGENCY.
- MH MOUNTING HEIGHT.
- S SURFACE MOUNTED.
- WP WEATHER PROOF.
- ③ NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
- ② DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
- H-1 EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
- H-1 EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
- 123 ROOM NUMBER.
- B H2 DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
- A H1 SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.
- A H1 EXTERIOR ELEVATION SYMBOL ELEVATION "A" DESIGNATION, SHOWN ON SHEET H1
- CONNECTION, NEW TO EXISTING.
- FD1 UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.
- 1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- 3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS
- ITEM TO BE REMOVED.
- EXISTING TO REMAIN.
- NEW ITEM.

## HVAC INDEX OF DRAWINGS

SHEET	DRAWING TITLE
H0.1	LEGENDS AND SCHEDULES
H0.2	MATERIALS SCHEDULES
H0.3	EQUIPMENT SCHEDULES
H1.1	DEMOLITION PLAN
H2.0	NEW WORK PLAN - BASEMENT
H2.1	NEW WORK PLAN - GROUND FLOOR
H2.2	NEW WORK PLAN - ROOF
H3.1	DETAILS
H3.2	DETAILS
H3.3	DETAILS
H3.4	DETAILS
H3.5	DETAILS
H4.1	CONTROLS
H4.2	CONTROLS
H5.1	VENTILATION

A

B

C

D

E

F



PIPING SYSTEMS - HVAC			
PIPING SYSTEM		TYPE	
COOLING COIL CONDENSATE		C3	
REFRIGERANT LINESETS		R2	
TYPE	DESCRIPTION	TYPE	DESCRIPTION
R2	COPPER COIL REFER TO SPECIFICATION 23 2300.	C3	SOLDERED COPPER TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER

PIPE INSULATION SCHEDULE			
SYSTEM & SIZE		INSULATION THICKNESS	LOCATION
REFRIGERANT LIQUID		0.75"	E1, E2
REFRIGERANT HOT GAS		0.75"	E1, E2
REFRIGERANT SUCTION		0.75"	E1, E2
COOLING COIL CONDENSATE		0.5"	F1
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION
F1	OWENS CORNING #SSL II WITH ASJ MAX JACKET	- KNAUF - JOHNS MANVILLE - MANSON - CERTAINTEED	PREFORMED, TUBULAR, INORGANIC GLASS FIBER WITH RESIN BONDING. K=0.24 @ 100 DEG. F. 3.5 - 5.5 PCF. WHITE FSRK JACKET. LONGITUDINAL LAP, SELF-SEALING ADHESIVE. ELBOWS, TEES, VALVES, CAPS, ETC., WHITE ONE PIECE. PREMOLDED 25/50 0.20" PVC FITTING COVERS WITH HIGH DENSITY FIBERGLASS INSULATION INSERTS SAME THICKNESS. K=0.26 EQUAL TO ZESTON OR PROTO.
E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, EPDM ELASTOMERIC TUBULAR INSULATION, OR SHEET INSULATION. K=0.25 @ 75 DEG. F. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING.
E2	ARMACELL #AP ARMAFLEX FS	- AEROFLEX - RUBATEX	FLEXIBLE, PRE-FORMED, CLOSED CELL, ELASTOMERIC TUBULAR INSULATION. CLEAN PIPE SURFACE WITH DENATURED ALCOHOL PRIOR TO INSULATING. K=0.25 @ 75 DEG. F. 25/50 FLAME/SMOKE RATING. PROVIDE 0.20" ROLL ALLOY ALUMINUM EMBOSSED JACKET, SEAM SIDE DOWN WITH 0.50" WIDE, 0.015" S.S. STRAP AND SEALS EQUAL TO PABCO-CHILDERS METALS/GERRARD.

### RATED ASSEMBLY PENETRATIONS

#### GENERAL NOTES:

- REFER TO THE ARCHITECTS LIFE SAFETY DRAWING FOR INFORMATION ON RATED ASSEMBLIES ON THIS PROJECT.
- REFER TO SPECIFICATION 23 0004, 23 0529, 23 3300 FOR INFORMATION ON SYSTEMS SPECIFIED PER THIS SCHEDULE.
- FIRE, SMOKE, AND COMBINATION FIRE/SMOKE DAMPER ACCESS DOORS SHALL BE LOCATED IN AN EASILY ACCESSIBLE LOCATION. FOR HORIZONTAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED ON THE BOTTOM OF DUCTWORK. FOR VERTICAL PENETRATIONS, ACCESS DOORS SHALL BE LOCATED AT THE FLOOR LEVEL ON THE HIGHER FLOOR (I.E., A PENETRATION THROUGH THE 1ST AND 2ND FLOOR SHALL HAVE THE ACCESS DOOR LOCATED ON THE 2ND FLOOR LEVEL).

ASSEMBLY TYPE	DUCTWORK				PIPING			NOTES
	FIRE DAMPER	FIRE STOPPING	PLIABLE CAULK	SMOKE DAMPER	COMBINATION FIRE / SMOKE	FIRE STOPPING	PLIABLE CAULK	
FIRE BARRIER	●	●				●		1
FIRE WALLS	●					●		
FIRE WALL HORIZONTAL EXIT					●	●		
FIRE BARRIER HORIZONTAL EXIT					●	●		
SHAFT ENCLOSURE	●	●		●	●	●		2
FIRE PARTITIONS	●					●		1
SMOKE PARTITIONS			●	●			●	
SMOKE BARRIER		●				●		3
RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●	●	4
NON-RATED HORIZONTAL ASSEMBLY (FLOOR / CEILING)	●	●				●		5

#### NOTES:

- PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING.
- PROVIDE FIRE DAMPER, SMOKE DAMPER, OR COMBINATION FIRE/SMOKE ONLY WHERE INDICATED ON DRAWINGS. OBC 717.5.3 EXCEPTIONS ALLOW THE ELIMINATION OF SOME DAMPERS. WHERE FIRE DAMPERS ARE NOT INDICATED, PROVIDE FIRE STOPPING.
- PROVIDE SMOKE DAMPERS ONLY WHERE INDICATED ON DRAWING. FOR DUCTS WITHOUT SMOKE DAMPERS, PROVIDE FIRE STOPPING.
- PROVIDE FIRE DAMPERS ONLY WHERE INDICATED ON DRAWINGS. FOR DUCTS WITHOUT FIRE DAMPERS, PROVIDE FIRE STOPPING. NOTE: DUCTS PENETRATING RATED FLOORS MAY BE WITHIN A SHAFT ENCLOSURE, REFER TO SHAFT REQUIREMENTS.
- DUCTS PENETRATING NON-RATED, NON-COMBUSTIBLE FLOORS AND NOT ENCLOSED IN A SHAFT REQUIRE A FIRE DAMPER. DUCTS PENETRATING NON-RATED, COMBUSTIBLE FLOORS AND NOT WITHIN A SHAFT REQUIRE FIRE STOPPING.

### DUCTWORK SYSTEMS SCHEDULE

DUCTWORK SYSTEMS	LOCATION	MATERIAL	SMACNA CLASS.		NOTES
			SP. CONSTR.	SEAL CLASS	
RETURN AIR	CONCEALED	G1	-2"	C	
RETURN AIR	EXPOSED	G2	-2"	C	1
EXHAUST AIR	CONCEALED	G1	-2"	C	
EXHAUST AIR	EXPOSED	G2	-2"	C	1
AIR TRANSFER	ALL	G1	-1"	NOT REQ'D.	
SUPPLY AIR - CONSTANT VOLUME	CONCEALED	G1	+3"	B	
SUPPLY AIR - CONSTANT VOLUME	EXPOSED	G1	+3"	B	
FLEXIBLE DUCTWORK - SUPPLY	CONCEALED OR UNCONDITIONED	C1	+10" -5"	N.A.	
DOMESTIC WATER HEATER INTAKE	ALL	P1	-2"	A	
DOMESTIC WATER HEATER FLUE	ALL	P1	+4"	A	
RADIANT HEATER INTAKE	ALL	G1	-2"	A	
RADIANT HEATER FLUE	ALL	D1	+4"	A	
GAS FIRED UNIT HEATER FLUE	ALL	D1	+4"	A	
DOMESTIC DRYER VENT	ALL	A1	+/-2"	A	

#### DUCTWORK MATERIALS SCHEDULE

TYPE	MATERIAL	DESCRIPTION
A1	ALUMINUM	22 GA. MIN., SPIRAL ALUMINUM JOINTS FASTENED BY SCREWS/RIVETS - SCREWS SHALL NOT PROTRUDE FURTHER THAN 1/8" INTO AIR STREAM - OMC 504.8.2. SUPPORT AT 4' INTERVALS
C1	CHLORINATED POLYETHYLENE	BLACK INNER FABRIC WITH GALVANIZED STEEL HELIX REINFORCING, R = 6.0 (MIN.) FIBERGLASS INSULATION, REINFORCED METALIZED VAPOR BARRIER, 0.05 PERM, UL 181, CLASS 1 DUCT, MEET NFPA 90A & 90B, 25/50 FLAME/SMOKE SPREAD.
D1	DOUBLE WALL FLUE	REFER TO SPECIFICATION 23 5100 FOR INFORMATION.
G1	GALVANIZED STEEL	24 GA. MIN., HOT DIPPED, GALVANIZED BOTH SIDES, G90 PER ASTM A653.
G2	GALVANNEALED STEEL	24 GA. MIN., HOT DIPPED, HEAT TREATED GALVANNEALED BOTH SIDES PER ASTM A653, PAINT UNIFORM GRAY MATTE APPEARANCE, A40 PER ASTM A653.
P1	POLYPROPYLENE	SCHEDULE 40 POLYPROPYLENE PIPE AND FITTINGS. UL 1738 CERTIFIED.

#### NOTES:

- DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS FOR CONCEALED AND EXPOSED INSTALLATIONS.

### DUCTWORK INSULATION SCHEDULE

SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTES
SUPPLY AIR DUCT	1.5"	1	CONCEALED	
SUPPLY AIR DUCT	2"	2	EXPOSED	
RETURN AIR DUCT	-	-	CONCEALED	
RETURN AIR DUCT	-	-	EXPOSED	
EXHAUST AIR DUCT & PLENUMS	-	-	CONCEALED	
EXHAUST AIR DUCT & PLENUMS	-	-	EXPOSED	
TYPE	BASIS OF DESIGN	APPROVED EQUALS	DESCRIPTION	
1	OWENS-CORNING SOFTR TYPE 75	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS DUCT WRAP ON DUCT K = 0.30 @ 75 DEG. F. DENSITY - 0.75 PCF JACKET - FOIL REINFORCED JOINTS - OVERLAPPING STAPLE ALL JOINTS AT 6" CENTERS. FASTENERS - MECHANICAL ON 24" & WIDER DUCT. ADHESIVE - NONE TAPE - 3" WIDE	
2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FIBERGLASS BOARD ON DUCT K = 0.23 @ 75 DEG. F. DENSITY - 3.0 PCF JACKET - ASJ JOINTS - BUTT FASTENERS - METAL PINS & CLIPS ON 12" CENTERS ADHESIVE - NONE TAPE - 3" WIDE VAPOR PATCHED	



FAN & ROOF VENTILATOR SCHEDULE

BASIS OF DESIGN - GREENHECK  
REFER TO SPECIFICATIONS FOR OTHER MANUFACTURERS  
  
VFD DRIVEN MOTORS SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS, VFD DUTY MOTORS.  
  
REFER TO INSTALLATION DETAILS.

TAG	SERVICE	AREA	DESCRIPTION	MODEL NUMBER & SIZE	ROOF OPENING (L x W)	CAPACITY		ELECTRICAL		DISCONNECT	DISCONNECT	VFD	ECM	DIRECT BELT	ROOF CURB	BASE/FLOOR	SUSPENDED	WALL	CEILING	UL 705 GREASE UL 864 SMOKE	HIGH TEMP	EXPLOSION	VIBRATION	INSULATION	THERMAL C	SLOPING RO	HINGED ROO	CURB EXTEN	POWDER CO	EPOXY INTER	DDC CONNEC	MANUAL ON	DIAL SPEED	HOA CONTR	MOTORIZED	GRAVITY DA	NOTES	
						AIRFLOW (CFM)	E.S.P. (IN. W.C.)	MOTOR HP	V/PH																													
EF-1	APP. BAY	ROOF	UPBLAST CENTRIFUGAL	CUE-200-VG	26.5 / 26.5	3,245	0.5	1	208 / 3	●			●	●	●		●																				1	
EF-2	APP. BAY	INLINE	INLINE CENTRIFUGAL	SQ-80-VG	-	220	0.25	1/6	120 / 1	●			●	●			●						●												●	●		1
EF-3	LIVING QUARTERS	ROOF	DOWNBLAST CENTRIFUGAL	G-095-VG	12.5 / 12.5	500	0.75	1/6	120 / 1	●			●	●	●																						1	
IH-1	APP. BAY	ROOF	INTAKE HOOD	FGI - 24X40	42.5 / 26.5	3,245	--	--	--						●																						2	
JF-1	APP. BAY	CEILING	JET FAN	GJI-26	-	2,130	-	1	208 / 1	●			●	●									●															
JF-2	APP. BAY	CEILING	JET FAN	GJI-26	-	2,130	-	1	208 / 1	●			●	●									●															

- NOTES:
- REFER TO HOA CONTROLLER INSTALLATION DETAIL.
  - BASED ON 500 FPM MAX THRUST VELOCITY.

AIR DEVICE SCHEDULE

GENERAL NOTES  
BASIS OF DESIGN: PRICE  
  
MAXIMUM SOUND LEVEL AT NC-25 AT INDICATED AIR FLOW.  
BALANCING DAMPER GENERALLY PROVIDED IN DUCT, NOT AT DEVICE.  
  
STANDARD WHITE BAKED ACRYLIC FINISH UNLESS NOTED OTHERWISE.  
DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED OR INDICATED ON DRAWINGS.  
VERIFY CEILING TYPE AND PROVIDE APPROPRIATE MOUNTING FRAME WHERE REQUIRED.

TAG	DESCRIPTION	MODEL NO.	MATERIAL	ACCESSORIES	NOTES
S1 & S1A	2'X2' SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	
S2 & S2A	12"X12" SQUARE PLAQUE DIFFUSER ROUND DUCT CONNECTION	SPD (ASPD)	STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	1
S3	LOUVERED SUPPLY GRILLE DOUBLE DEFLECTION W/ LONG FRONT BLADES 3/4" BLADE SPACING	520	STEEL		
R1	RETURN GRILLE DEVICE SIZE - 24" X 24" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	RETURN AIR CANOPY	
R2	RETURN GRILLE DEVICE SIZE - 24" X 12" 45° HORIZONTAL BLADES 1/2" SPACING BLADES PARALLEL TO LONG DIMENSION	635	ALUMINUM	RETURN AIR CANOPY	
R3	RETURN GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM		1
R4	RETURN GRILLE HEAVY DUTY GYM GRILLE 45° HORIZONTAL BLADES 3/4" SPACING	96	STEEL	DAMPER	
E1	EXHAUST GRILLE DEVICE SIZE - 12" X 12" 45° HORIZONTAL BLADES 1/2" SPACING	635	ALUMINUM	SURFACE MOUNT FRAME	

- NOTES:
- DEVICE TO BE SURFACE MOUNTED IN CENTER OF ACOUSTIC CEILING PAD FOR LAY-IN APPLICATION.

GAS FIRED UNIT HEATER SCHEDULE

GENERAL NOTES												
BASIS OF DESIGN: MODINE												
UNIT NO.	SERVICE	MODEL	MOUNTING	(MBH) INPUT/OUTPUT	CFM	AMPS	VOLT/PH	DIMENSIONS			WEIGHT	NOTES
								L (IN.)	D (IN.)	H (IN.)		
GUH-1	APP. BAY	PTX-175	CEILING SUSPENDED	175 / 143	2,725	5	120 / 1	42.5"	32.8"	25.8"	210	1
GUH-2	APP. BAY	PTX -175	CEILING SUSPENDED	175 / 143	2,725	5	120 / 1	42.5"	32.8"	25.8"	210	1

- NOTES:
- CONTRACTOR CONVENIENCE PACKAGE - CONDENSATE PUMP OUTLET, UNIT DISCONNECT SWITCH, HEAT STATUS INDICATOR, EXTERNAL TERMINALS FOR DDC CONNECTION.

ELECTRIC FINNED TUBE CONVECTOR SCHEDULE

GENERAL NOTES											
BASIS OF DESIGN - RAYWALL											
UNIT	MODEL	ROWS OF FINNED TUBE	INLET LOCATION	ELECTRICAL			CABINET DIMENSIONS			COLOR	NOTES
				W/FT	TOTAL W	V/PH	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)		
FT-1	E-91-28-200-ITS-PD	1	BOTTOM	200	467	120 / 1	28"	3-1/8"	4-1/2"	NOTE 1	1, 3, 4
FT-2	E-91-120-250-ITS-PD	1	BOTTOM	250	2,500	208 / 1	120"	3-1/8"	4-1/2"	NOTE 1	1, 2, 3
FT-3	E-91-84-250-ITS-PD	1	BOTTOM	150	1,050	208 / 1	84"	3-1/8"	4-1/2"	NOTE 1	1, 2, 3

- NOTES:
- COLOR SELECTION BY ARCHITECT.
  - LINE VOLTAGE THERMOSTAT PROVIDED BY THE E.C., COORDINATE UNIT LOCATIONS AND QUANTITIES WITH THE E.C.
  - 3" PEDESTAL.
  - PROVIDE WITH INTEGRAL LINE VOLTAGE THERMOSTAT AND DISCONNECT SWITCH.

EQUIPMENT NOTES

DS-1  
  
DUCT SILENCER  
RECTANGULAR DISSIPATIVE TYPE  
VIBRO-ACOUSTICS #RD-MV OR APPROVED EQUAL  
AIRFLOW: 1,100 CFM  
DUCTWORK DIMENSIONS: 12"W / 10"H  
PRESSURE DROP: 0.25"

DS-2  
  
DUCT SILENCER  
RECTANGULAR DISSIPATIVE TYPE  
VIBRO-ACOUSTICS #RD-MLV OR APPROVED EQUAL  
AIRFLOW: 1,765 CFM  
DUCTWORK DIMENSIONS: 26"W / 10"H  
PRESSURE DROP: 0.25"

EQUIPMENT NOTES

HVAC SPLIT SYSTEM  
BASIS OF DESIGN: DAIKIN  
  
INDOOR UNIT:  
MODEL #AMST24BU1300  
• ECM FAN  
• COOLING CAPACITY: 18,000 BTU/HR  
• REFRIGERANT: R-32  
• LINESET SIZES: GAS (3/4") / LIQUID (3/8")  
• WEIGHT: 117 LBS  
• POWER: 208V/1PH/5.8 MCA/15 MOCPP  
• CONDENSATE PUMP: BLUE DIAMOND #X87-721  
  
OUTDOOR UNIT (HEAT PUMP):  
MODEL #DH4SEA1810  
• RATED TEMPERATURES: 95 / 75  
• COOLING CAPACITY: 18,000 BTU/HR  
• HEATING CAPACITY: 17,400 BTU/HR  
• POWER: 208V/1PH/11.4 MCA/15 MOCPP  
• MAX LINESET LENGTH: 200'  
• WEIGHT: 160 LBS  
• DIMENSIONS: 32.5"/29"/29" (W/D/H)  
• COOLING OPERATING TEMP. RANGE: 55°F - 125°F  
• HEATING OPERATING TEMP. RANGE: -20°F - 70°F

HVAC SPLIT SYSTEM  
BASIS OF DESIGN: DAIKIN  
  
INDOOR UNIT:  
MODEL #AMST24BU1300  
• ECM FAN  
• COOLING CAPACITY: 18,000 BTU/HR  
• REFRIGERANT: R-32  
• LINESET SIZES: GAS (3/4") / LIQUID (3/8")  
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• CONDENSATE PUMP: BLUE DIAMOND #X87-721  
  
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MODEL #DH4SEA1810  
• RATED TEMPERATURES: 95 / 75  
• COOLING CAPACITY: 18,000 BTU/HR  
• HEATING CAPACITY: 17,400 BTU/HR  
• POWER: 208V/1PH/11.4 MCA/15 MOCPP  
• MAX LINESET LENGTH: 200'  
• WEIGHT: 160 LBS  
• DIMENSIONS: 32.5"/29"/29" (W/D/H)  
• COOLING OPERATING TEMP. RANGE: 55°F - 125°F  
• HEATING OPERATING TEMP. RANGE: -20°F - 70°F

PACKAGED ROOFTOP UNITS

UNIT TAG	RTU-1	RTU-2
BASIS OF DESIGN	DAIKIN #DPSC04B	DAIKIN #DPSC07B
SERVICE	DORM	LIVING QTR.
DESCRIPTION	HEAT / COOL	HEAT / COOL
MOUNTING	ROOF CURB	ROOF CURB
EVAPORATOR FAN		
AIRFLOW (CFM)	1100	2365
ESP, (" W.G.)	1.25	1.25
FAN TYPE	ECM	ECM
VARIABLE FREQUENCY DRIVE	NOT REQ.	NOT REQ.
FILTER		
PRE-FILTER	2" MERV 8	2" MERV 8
FINAL FILTER	4" MERV 14	4" MERV 14
COOLING - BASED ON 90/74 (DB/WB) O.A. & 76 DB, 50% RH R.A.		
TOTAL (MBH)	44	92
SENSIBLE (MBH)	30	64
ENTER. AIR (DB/WB)	80 / 66.5	80 / 66.5
SUPPLY AIR (DB/WB)	55 / 54	55 / 54
EER	13.2	13.0
HEATING - REQ. NATURAL GAS INPUT PRESSURE: 4.5" W.C. MIN./14" W.C. MAX. -BASED ON 0°F O.A., 66°F R.A. CONDITIONS		
GAS INPUT (MBH)	80	200
OUTPUT (MBH)	65	162
ENTER. AIR DB	48	44
SUPPLY AIR (DB/WB)	104	110
ELECTRIC		
MCA	34	51
MOCP	50	70
VOLTAGE/HZ/PHASE	208 / 3	208 / 3
PHYSICAL UNIT DATA		
LENGTH	84.5	101.6
WIDTH	53.3	73.4
HEIGHT - NOT INCLUDING CURB	69.5	85.9
MAX UNIT OP. WEIGHT (LBS)	942	1770
UNIT OPTIONS		
ECONOMIZER HOOD	•	•
MIN. O.A. HOOD	•	•
CONSTANT AIR VOLUME	•	•
VARIABLE AIR VOLUME		
SINGLE SPEED / STAGED COMPRESSORS		
DIGITAL SCROLL COMPRESSORS		
INVERTER DUTY COMPRESSOR	•	•
STAINLESS STEEL HEAT EXCHANGER	•	•
RETURN AIR SMOKE DETECTOR		
CO2 SENSOR D.V.C.		
14" ROOF CURB ADAPTER	•	•
POWERED RELIEF FAN		
BAROMETRIC GRAVITY RELIEF DAMPER		
WALL MOUNTED THERMOSTAT/HUMIDISTAT	•	•

ELECTRIC		
MCA	34	51
MOCP	50	70
VOLTAGE/HZ/PHASE	208 / 3	208 / 3
PHYSICAL UNIT DATA		
LENGTH	84.5	101.6
WIDTH	53.3	73.4
HEIGHT - NOT INCLUDING CURB	69.5	85.9
MAX UNIT OP. WEIGHT (LBS)	942	1770
UNIT OPTIONS		
ECONOMIZER HOOD	•	•
MIN. O.A. HOOD	•	•
CONSTANT AIR VOLUME	•	•
VARIABLE AIR VOLUME		
SINGLE SPEED / STAGED COMPRESSORS		
DIGITAL SCROLL COMPRESSORS		
INVERTER DUTY COMPRESSOR	•	•
STAINLESS STEEL HEAT EXCHANGER	•	•
RETURN AIR SMOKE DETECTOR		
CO2 SENSOR D.V.C.		
14" ROOF CURB ADAPTER	•	•
POWERED RELIEF FAN		
BAROMETRIC GRAVITY RELIEF DAMPER		
WALL MOUNTED THERMOSTAT/HUMIDISTAT	•	•

- NOTES:
- SEE ROOFTOP UNIT MOUNTING DETAIL, DETAIL 3, SHEET H3.5.
  - COOLING COIL CONDENSATE TRAP PER DETAIL 4, SHEET H3.5.



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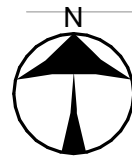
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## FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



## BASEMENT DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

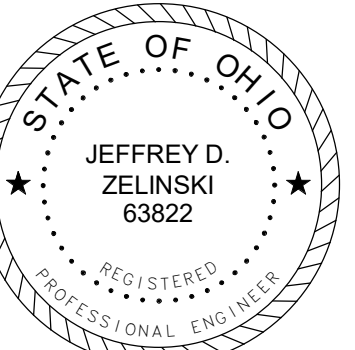


### CONSTRUCTION NOTES

1. REMOVE STEAM BOILER AND DEAERATOR TANK.
2. REMOVE ALL STEAM SYSTEM PIPING IN BOILER ROOM.
3. REMOVE PIPING RISE UP TO THE FIRST FLOOR. PATCH FLOOR TO MATCH EXISTING CONSTRUCTION. TYPICAL.
4. REMOVE DUCT RISE UP TO FIRST FLOOR. PATCH FLOOR TO MATCH EXISTING CONSTRUCTION. TYPICAL.
5. REMOVE INDOOR COOLING ONLY HVAC UNIT.
6. REMOVE REFRIGERANT LINESET.
7. PATCH FOUNDATION WALL PENETRATION TO MATCH EXISTING CONSTRUCTION.
8. REMOVE RADIATOR. TYPICAL.
9. REMOVE AIR DEVICE IN FLOOR.
10. REMOVE CONDENSING UNIT.
11. REMOVE UNIT HEATER AND ASSOCIATED THERMOSTAT.
12. REMOVE EXHAUST GRILLES. TRACE OUT DUCTWORK ABOVE CEILING AND REMOVE.
13. REMOVE RESTROOM EXHAUST FAN ON ROOF.
14. REMOVE ALL STEAM AND CONDENSATE PIPING IN BASEMENT.
15. REMOVE VEHICLE EXHAUST FAN.
16. WALL PENETRATION TO BE REUSED.
17. REMOVE VEHICLE EXHAUST SYSTEM DUCTWORK. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL VEHICLE EXHAUST COMPONENTS.
18. REMOVE VEHICLE EXHAUST HOSE & RAIL SYSTEM. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL VEHICLE EXHAUST COMPONENTS.

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TITLE  
**DEMOLITION PLAN**

SHEET NO.

**H1.1**

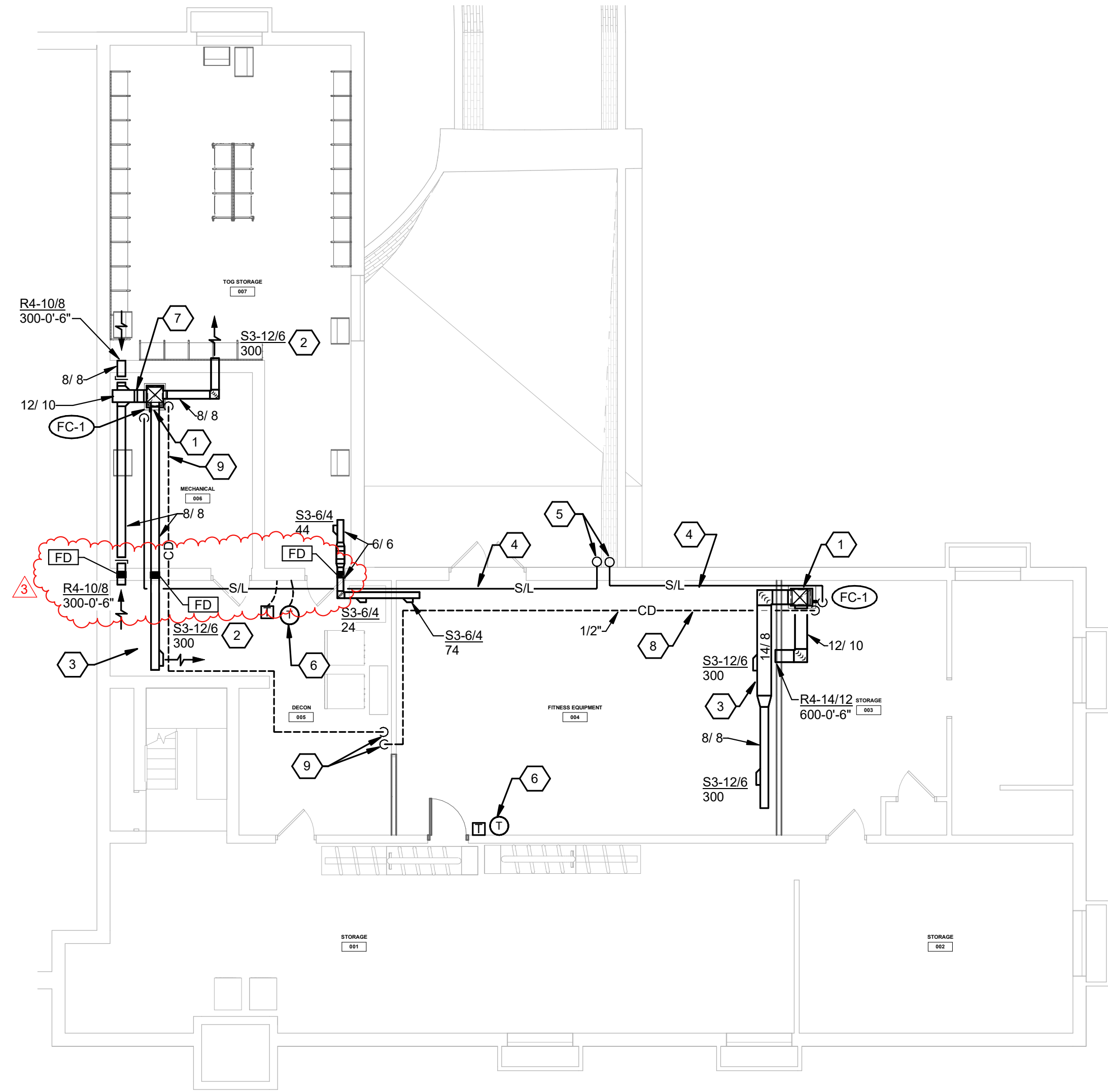


SCALE: 1/8"=1'-0"

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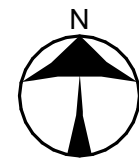


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## NEW WORK PLAN - BASEMENT

SCALE: 1/8" = 1'-0"



### CONSTRUCTION NOTES

1. 4" CONCRETE EQUIPMENT PAD BY H.C.
2. TOP OF DEVICE AT 7'-6".
3. DUCT RUN TIGHT TO BAR JOISTS.
4. REFRIGERANT LINESET.
5. REFRIGERANT LINESET UP TO GRADE MOUNTED CONDENSING UNIT. SEAL EXTERIOR WALL PENETRATIONS WATER TIGHT.
6. DDC TEMPERATURE SENSOR.
7. PROVIDE 1" CAMFIL FILTER BANK IN RETURN DUCT. PROVIDE 1" CARBON FILTER EQUAL TO CAMFIL #CC-PG-LGX048.
8. CONDENSATE PUMP DISCHARGE.
9. TERMINATE CONDENSATE DRAIN IN EXISTING SEWAGE EJECTOR.

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TITLE  
**NEW WORK PLAN -  
BASEMENT**

SHEET NO.

**H2.0**



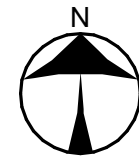
SCALE: 1/8"=1'-0"

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NEW WORK PLAN - GROUND FLOOR

SCALE: 1/8" = 1'-0"



CONSTRUCTION NOTES

- COORDINATE DUCTWORK ROUTE ACROSS HALLWAY WITH EXISTING BUILDING STRUCTURE. DUCT RISES INTO JOIST SPACE TO RUN ACROSS CORRIDOR.
- REUSED EXISTING WALL PENETRATION FOR NEW EXHAUST DUCTWORK. SEAL AROUND DUCT WATER TIGHT.
- 45" WEATHERHOOD WITH BIRDSCREEN ON EXTERIOR OF BUILDING.
- STUB DUCTWORK INTO APPARATUS BAY AND PROVIDE INSULATED AUTOMATIC CONTROL DAMPER DUCT END. DAMPER SHALL BE LOCATED ABOVE VEHICLE PATH OF TRAVEL.
- MOUNT JET FAN CLEAR OF VEHICLE PATH OF TRAVEL.
- DUCT UP TO EF-1. DUCT OPEN TO APP. BAY.
- CO/NO2 DETECTION SYSTEM CONTROLLER.
- EF-1 MANUAL OVERRIDE PUSH BUTTON.
- CO/NO2 SENSOR. MOUNT 4' A.F.F.
- CO/NO2 SENSOR. MOUNT ON COLUMN AT ROOF STRUCTURE.
- NEEDERMAN RECIEVER GEN.-IB #89115580. MOUNT 4' A.F.F.
- RTU 7-DAY PROGRAMMABLE THERMOSTAT.
- DDC TEMPERATURE SENSOR.
- ELECTRIC FINNED TUBE THERMOSTAT.
- 4"Ø DRYER VENT. REFER TO DETAIL FOR INSTALLATION REQUIREMENTS.
- DUCT RUN IN JOIST SPACE TO COORDINATE WITH CEILING ELEVATION.
- FLUE THROUGH ROOF.
- GRADE MOUNTED CONDENSING UNIT. PROVIDE CONCRETE EQUIPMENT PAD.
- DUCTS UP TO RTU ON ROOF.
- PIPE DROPS IN ACCESS RAMP SPACE AND PENETRATES BUILDING EXTERIOR WALL AT BASEMENT FLOOR LEVEL. REFER TO H2.0 FOR PIPING CONTINUATION.
- INTAKE HOOD THROUGH SIDEWALL. INSTALL UNDER APPRATUS BAY ROOF OVERHANG OF LIVING QUARTERS ROOF.
- DUCT END OPEN TO PLENUM.
- DORM ROOM AIR DEVICE RUNOUT DUCTWORK RUN IN JOIST SPACE. FIELD COORDINATE DUCTWORK ROUTING WITH EXISTING CONDITIONS. TYPICAL.
- PROVIDE 1.5 HOUR FIRE DAMPER AT FLOOR PENETRATION. INSTALL ACCESS PANEL ON 1ST FLOOR LEVEL. PROVIDE ACCESS PANEL ON CHASE WALL, COORDINATE ACCESS PANEL COLOR WITH ARCHITECT.

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**STATE OF OHIO**  
JEFFREY D. ZELINSKI  
63822  
REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822  
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TITLE  
**NEW WORK PLAN - GROUND FLOOR**

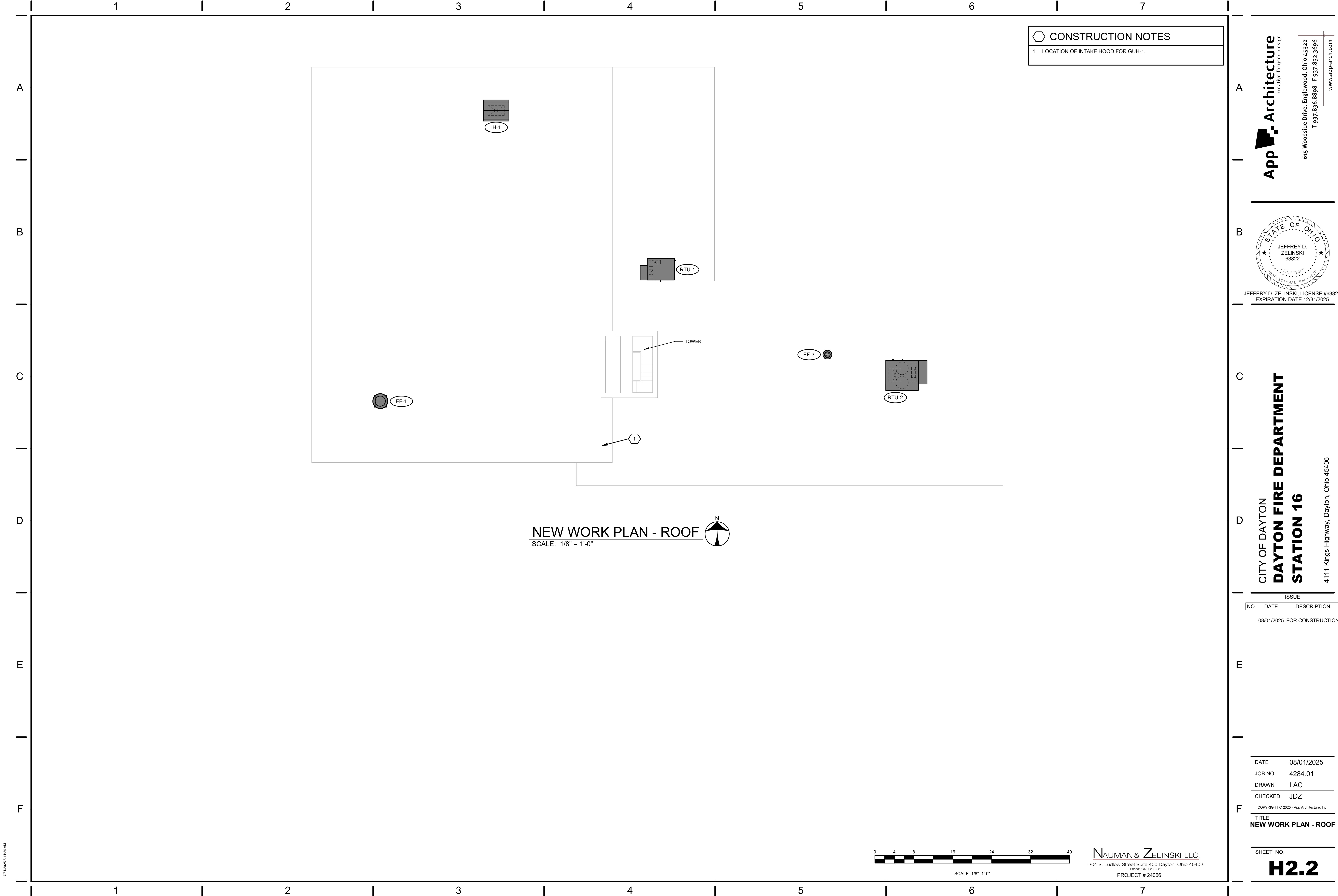
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SCALE: 1/8"=1'-0"

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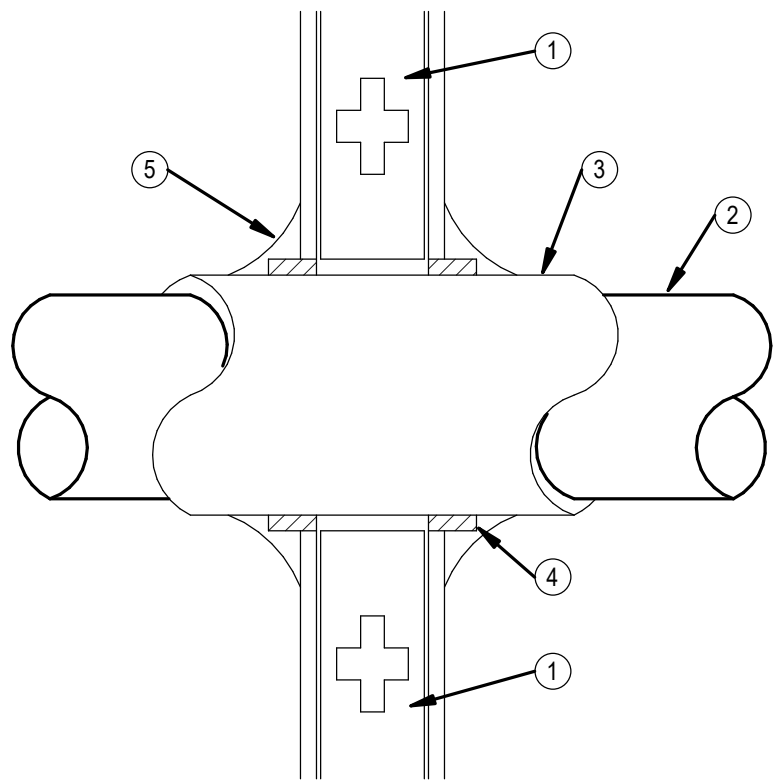


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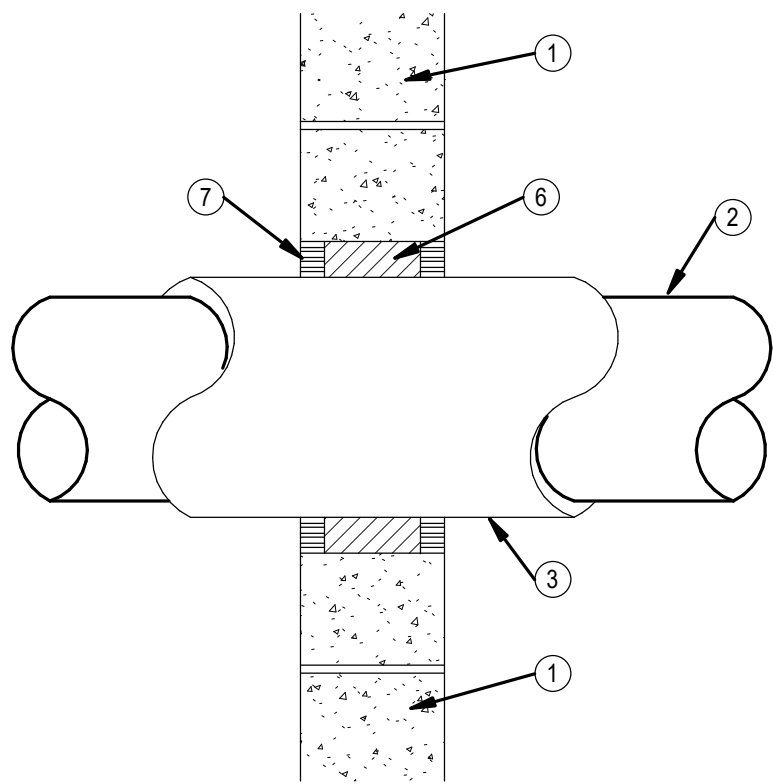


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GYPSUM CONSTRUCTION  
ALL PIPE SIZES

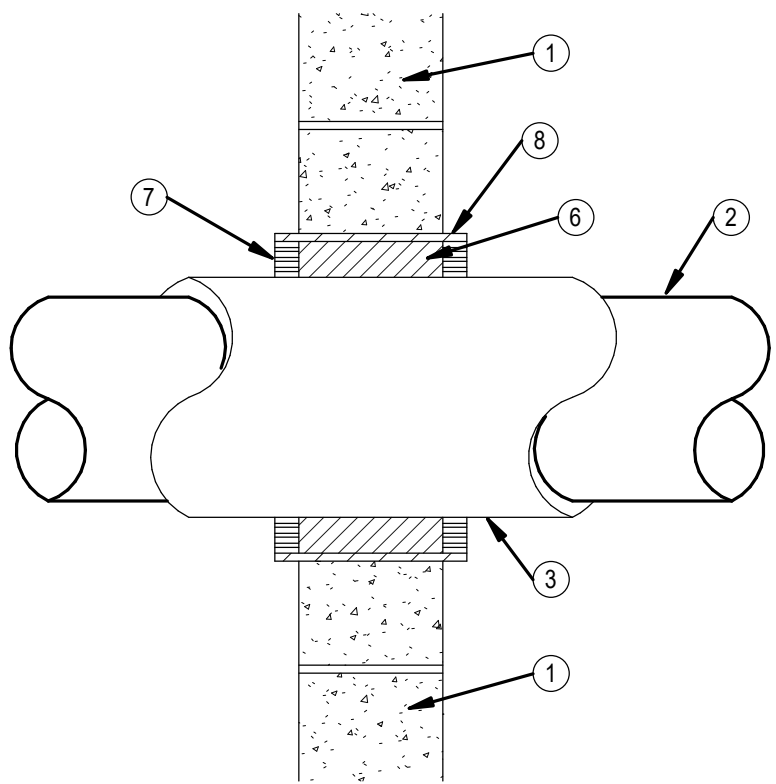


CONCRETE/MASONRY CONSTRUCTION  
1/2" - 1.5" PIPES

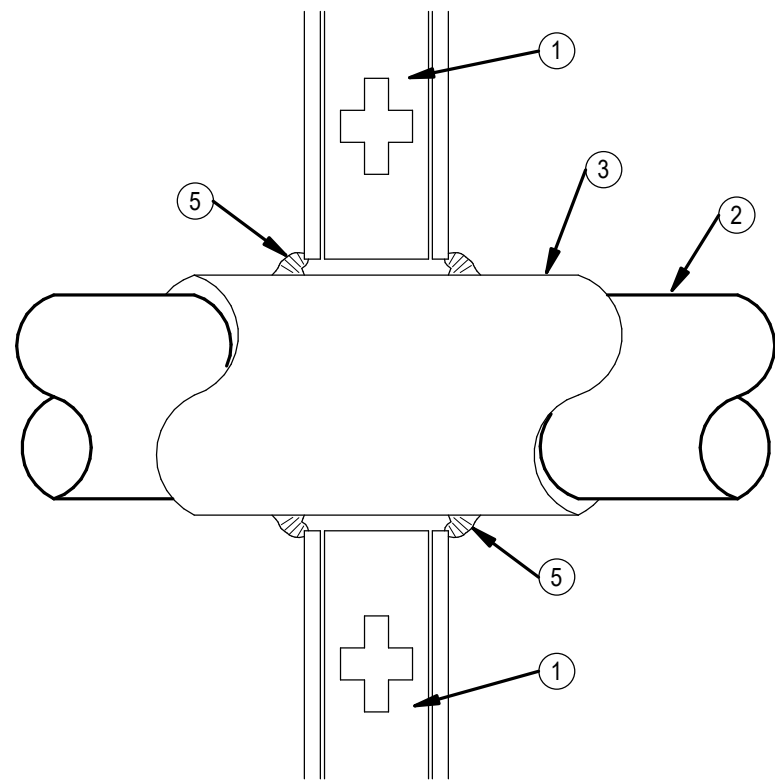
FIRESTOPPING MATERIALS/INSTALLATION

- MANUFACTURERS: REFER TO THE SPECIFICATION.
- FIRESTOPPING MATERIAL INSTALLATION SHALL BE PER THE MANUFACTURERS DETAILED INSTALLATION DIAGRAMS AND INSTRUCTIONS.
- F-RATING OF PENETRATION SHALL BE NO LESS THAN THE FIRE RATING OF THE WALL.
- SUBMITTAL SHALL INCLUDE PRODUCT DATA AND DETAILED INSTALLATION SYSTEM DIAGRAMS.

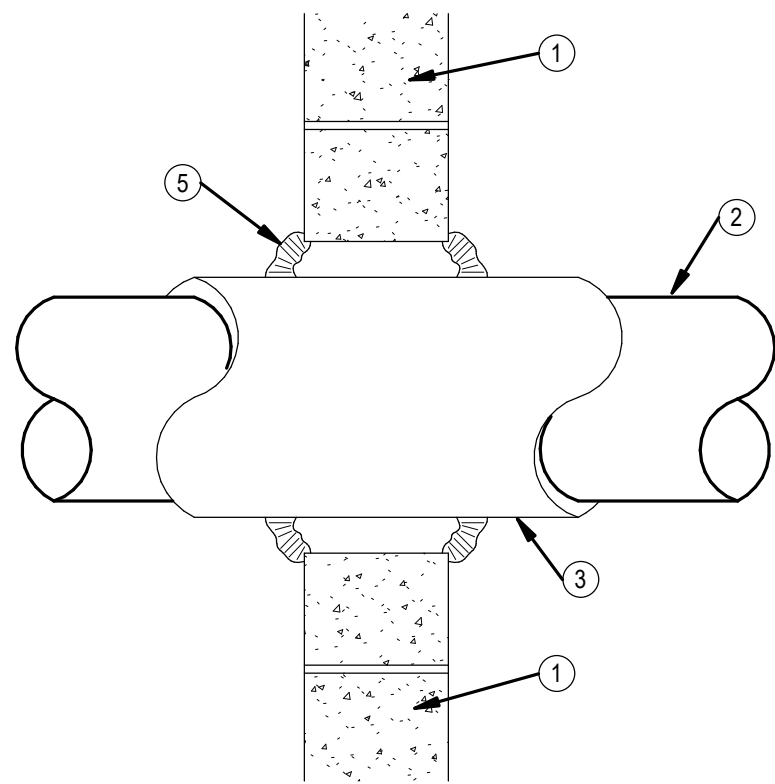
- 1 RATED WALL ASSEMBLY.
- 2 METALLIC PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING. SEE SCHEDULE FOR THICKNESS.
- 4 APPROVED FIRESTOPPING VOID/CAVITY MATERIAL.
- 5 APPROVED FIRESTOPPING CAULK OR SEALANT.
- 6 PACKING MATERIAL, MINERAL WOOL BATT INSULATION.
- 7 APPROVED FIRESTOPPING CAULK OR SEALANT FLUSH WITH SURFACE OF WALL OR EDGE OF SLEEVE.
- 8 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.



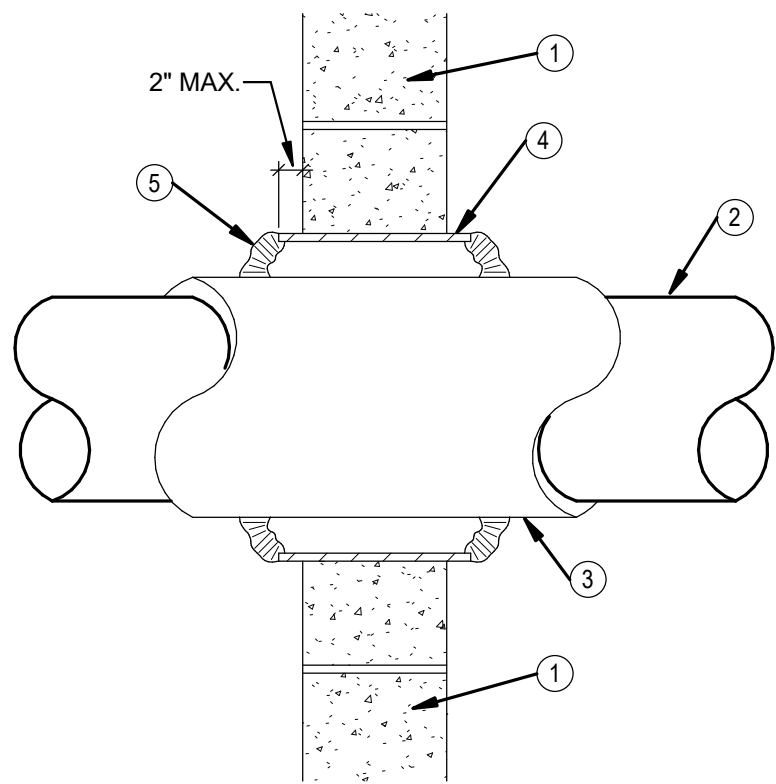
CONCRETE/MASONRY CONSTRUCTION  
2" AND LARGER PIPES



GYPSUM CONSTRUCTION  
ALL PIPE SIZES



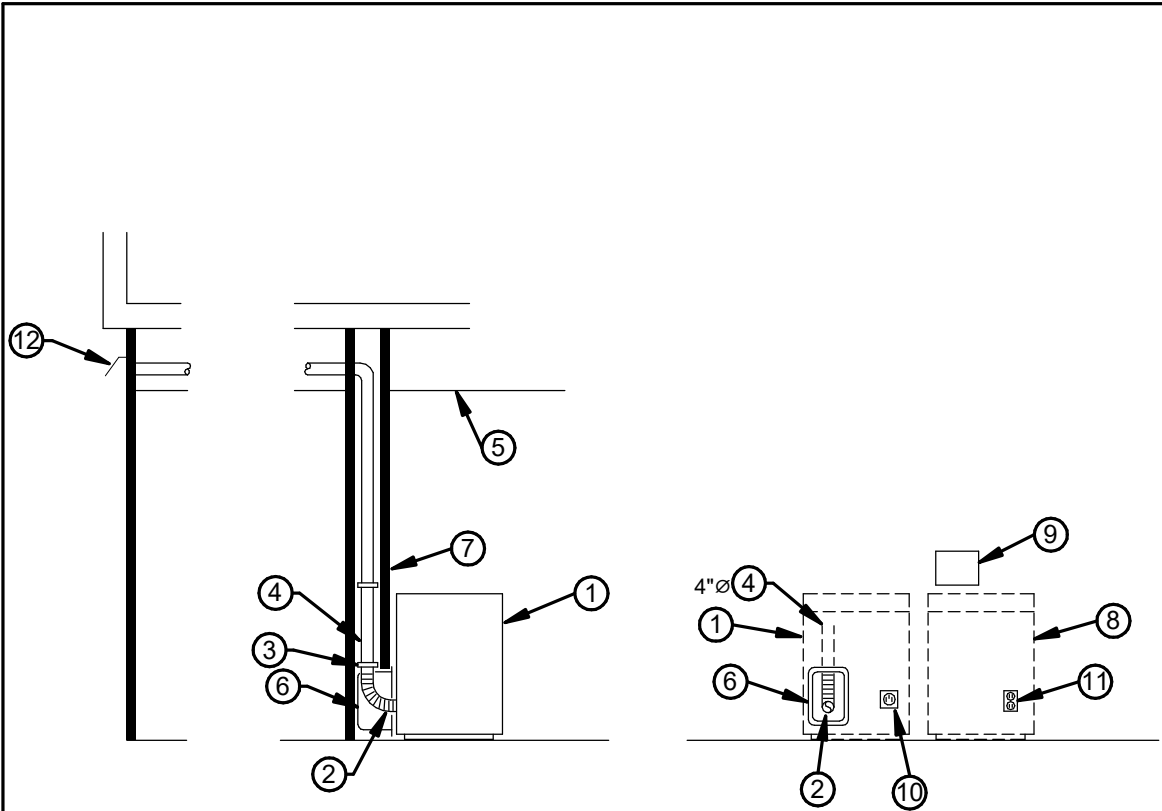
CONCRETE/MASONRY CONSTRUCTION  
1/2" - 1.5" PIPES



CONCRETE/MASONRY CONSTRUCTION  
2" AND LARGER PIPES

- 1 FULL HEIGHT INTERIOR WALL.
- 2 PIPE OR TUBING.
- 3 PIPE INSULATION, CONTINUOUS THROUGH WALL OPENING. SEE SCHEDULE FOR THICKNESS.
- 4 SCHEDULE 40 STEEL PIPE SLEEVE CAST OR GROUTED INTO WALL ASSEMBLY. ENDS FLUSH OR MAX. 2" BEYOND WALL SURFACE.
- 5 CAULK TO FILL VOID AT WALL/SLEEVE OPENING.

1 PIPE PENETRATIONS THRU FIRE RATED WALL  
N.T.S.

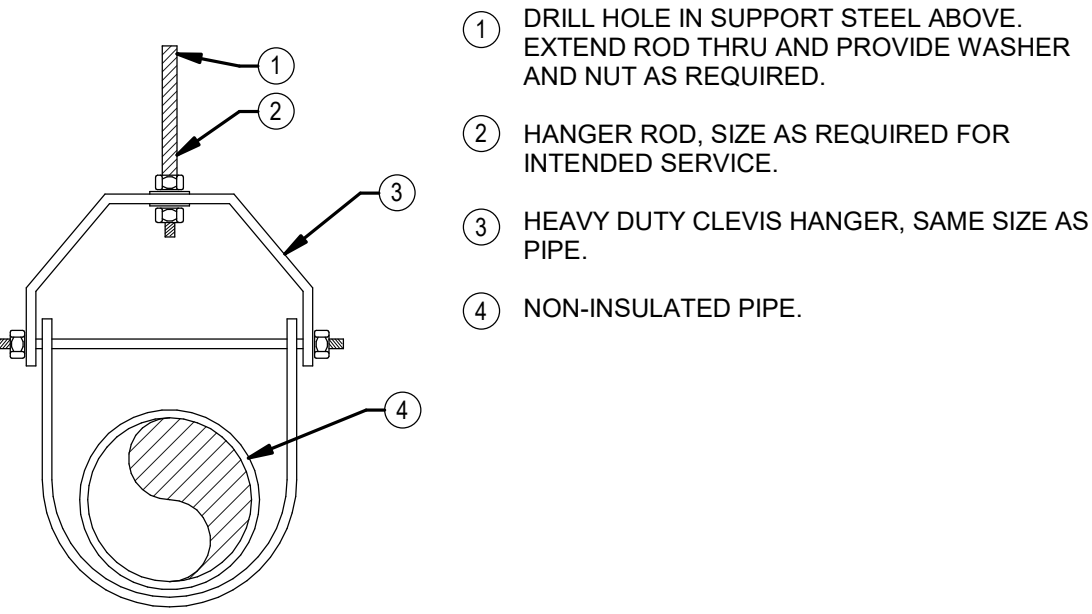


NOTE:  
1. COORDINATE LOCATION OF VENT BOX WITH WASHER & DRYER PROVIDED AND WITH ELEC. & PLB.G. CONTRACTORS ON LOCATION OF RECEPTACLES & WASHER BOX.

4" SIZE EXCEPT LARGER IF RECOMMENDED BY DRYER MANUFACTURER.

- 1 DRYER.
- 2 FLEXIBLE ALUMINUM DUCT WITH METAL DRAWBAND CONNECTORS.
- 3 STAINLESS STEEL DUCT SUPPORT. SUPPORT AT 4' INTERVALS.
- 4 4" Ø ALUMINUM SPIRAL DUCT. DUCT SHALL NOT BE JOINED WITH SCREWS OR FASTENERS THAT PORTRUDE MORE THAN 1/8" INTO THE INSIDE OF THE DUCT.
- 5 LAY-IN CEILING.
- 6 RECESSED DRYER VENT BOX. FLUSH MTD. IN 6" STUD WALL. 22 GA. ALUMINIZED STEEL WITH FLANGE, 4" DIA. TOP OUTLET, 9"Wx18"Hx5.5"D.P. INSIDE DIMENSION. FASTEN TO WALL AT FLANGE TO CONNECT TO STUDS. AMERICAN ALDES MODEL PN OR BY IN-O-VATE TECHNOLOGIES OR EQUAL. MOUNT BOTTOM AT 4" ABOVE FLOOR.
- 7 DRYWALL OR MASONRY ENCLOSURE BY G.C.
- 8 WASHER.
- 9 WASHER UTILITY BOX BY P.C.
- 10 220/208 VOLT OUTLET BY E.C.
- 11 DOUBLE DUPLEX OUTLET BY E.C.
- 12 SIDEWALL DRYER VENT HOOD WITH DAMPER. AMERICAN ALDES #22-404 OR EQUAL. HOOD IS GALVANIZED, PAINTING BY G.C., FINAL CUSTOM COLOR SELECTION BY ARCHITECT.

3 DRYER VENT  
N.T.S.



- 1 DRILL HOLE IN SUPPORT STEEL ABOVE. EXTEND ROD THRU AND PROVIDE WASHER AND NUT AS REQUIRED.
- 2 HANGER ROD, SIZE AS REQUIRED FOR INTENDED SERVICE.
- 3 HEAVY DUTY CLEVIS HANGER, SAME SIZE AS PIPE.
- 4 NON-INSULATED PIPE.

4 PIPE HANGER - NON INSULATED PIPE  
N.T.S.

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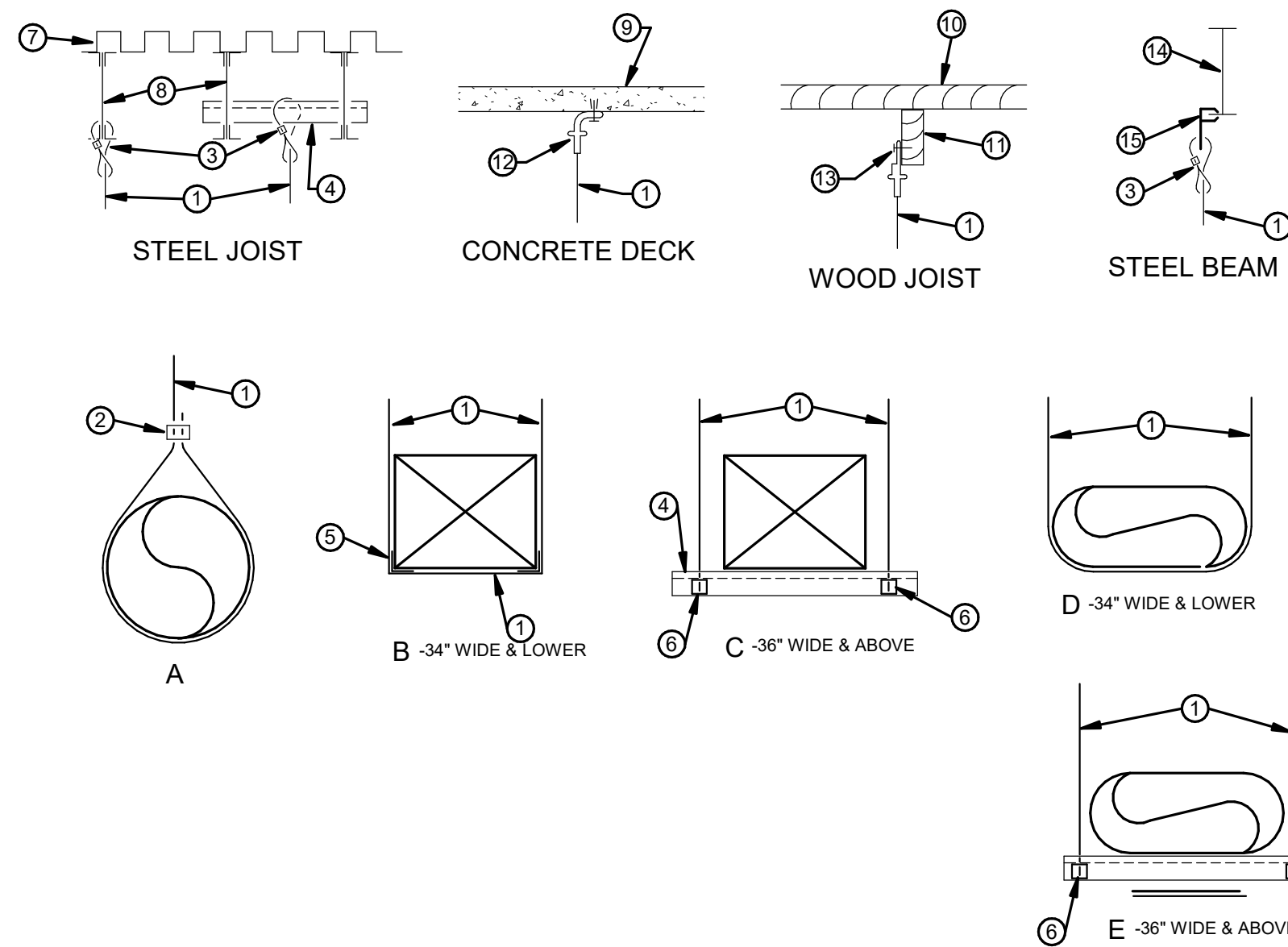
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DETAILS

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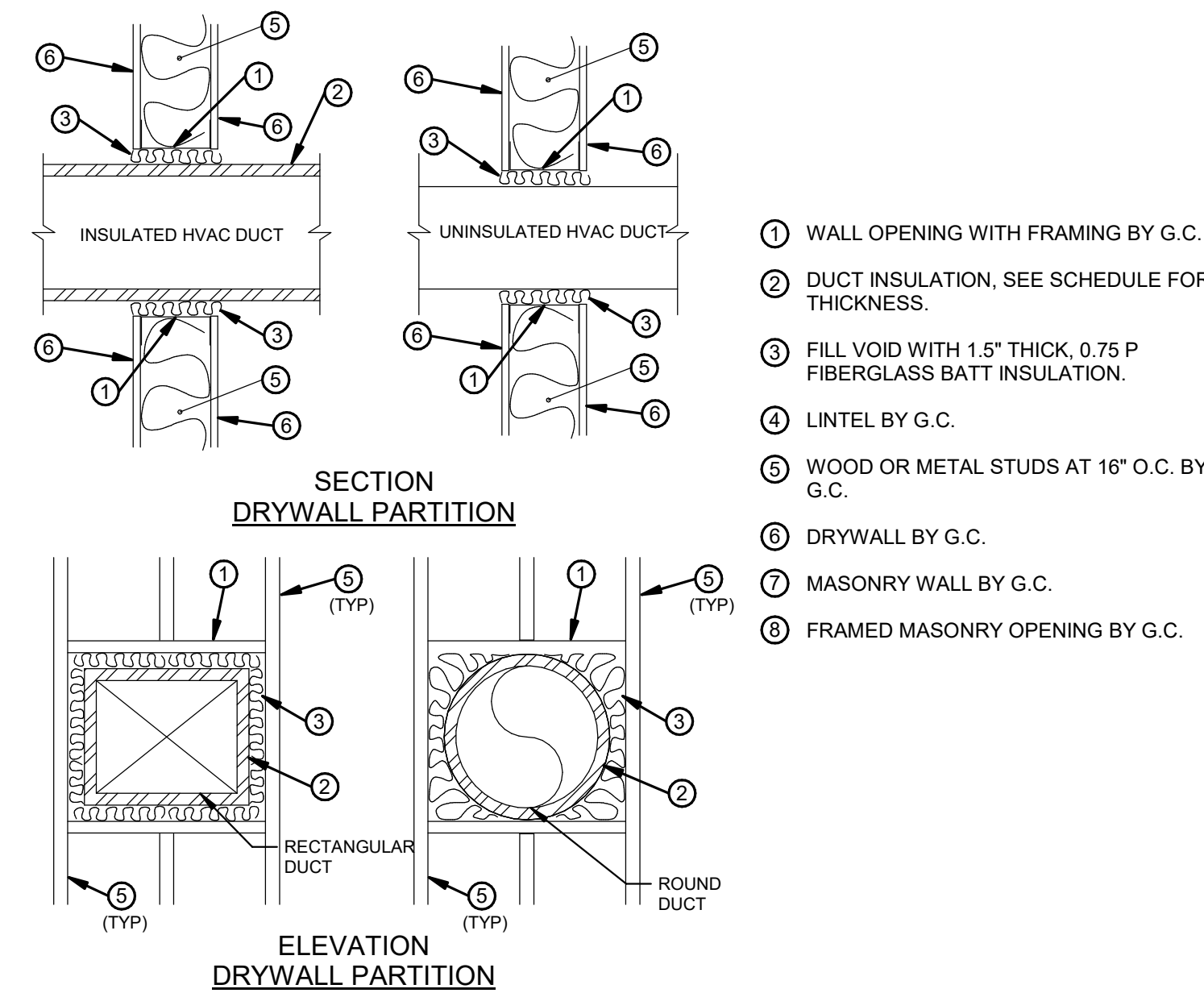
- 1/8" DIA. OR 3/16" DIA. GALVANIZED STEEL CABLE, AISI 316 (GRIPPLE NO. 3 OR NO. 4).
- CABLE LOCKING FASTENER, PERMITTED ONLY ON ROUND DUCT (GRIPPLE HF).
- CABLE LOOP WITH LOCKING FASTENER (GRIPPLE HF).
- UNISTRUT CHANNEL.
- CORNER SADDLE (GRIPPLE).
- GRIPPLE TRAPEZE SUPPORT (GRIPPLE NO. 3).
- METAL DECK.
- METAL JOIST.
- CONCRETE SLAB.
- WOOD DECK.
- WOOD JOIST.
- 90 DEG. EYELET, FASTEN TO CONC. WITH SCREWS, BOLTS OR POWER ACUATED TOOLS. (GRIPPLE 90 DEG. EYELET).
- EYELET, FASTEN TO WOOD WITH SCREWS, BOLTS OR NAILS. (GRIPPLE EYELET).
- STEEL BEAM.
- BEAM CLIP - GRIPPLE GCB.

\* HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN & LAYOUT OF DUCT HANGERS & SUPPORTS.  
\* ALL SUPPORT MATERIALS SHALL BE PAINTED, COATED OR GALVANIZED.  
\* STRUCTURE CONNECTIONS SHALL BE AT STRUCTURAL ELEMENTS ONLY. PROVIDE SPANNING STRUCTURAL ELEMENTS WHERE REQUIRED.  
\* SINGLE CHANNEL DUCT TRAPEZE CONNECTION DEVICES ARE NOT APPROVED.  
\* PROVIDE HANGER SPACING AS REQUIRED FOR SUPPORT. MAXIMUM 8 FT. SPACING EXCEPT FOR DUCT DIAMETER OR WIDTHS 36" & LARGER SHALL BE MAXIMUM 4 FT. SPACING.  
\* DESIGN SHALL MAINTAIN SUPPORT UPON FAILURE OF ANY INDIVIDUAL HANGER.  
\* STEEL CABLE DUCT SUPPORT SYSTEM A, B OR D SHALL BE UTILIZED WHERE DUCTS ARE EXPOSED IN NON MECHANICAL AREA.  
\* USE OF STRAP OR THREADED ROD HANGERS PER SMACNA ARE ALSO ACCEPTABLE IN ABOVE CEILING LOCATIONS.  
\* CABLE SUPPORTS & ACCESSORIES SHALL BE MANUFACTURED BY GRIPPLE OR EQUAL BY DUCTMATE OR DURODYNE.  
\* CABLE SUPPORTS & ACCESSORIES SHALL NOT BE PAINTED.

## 1 DUCT HANGERS & SUPPORTS

WIRE HANGERS

N.T.S.

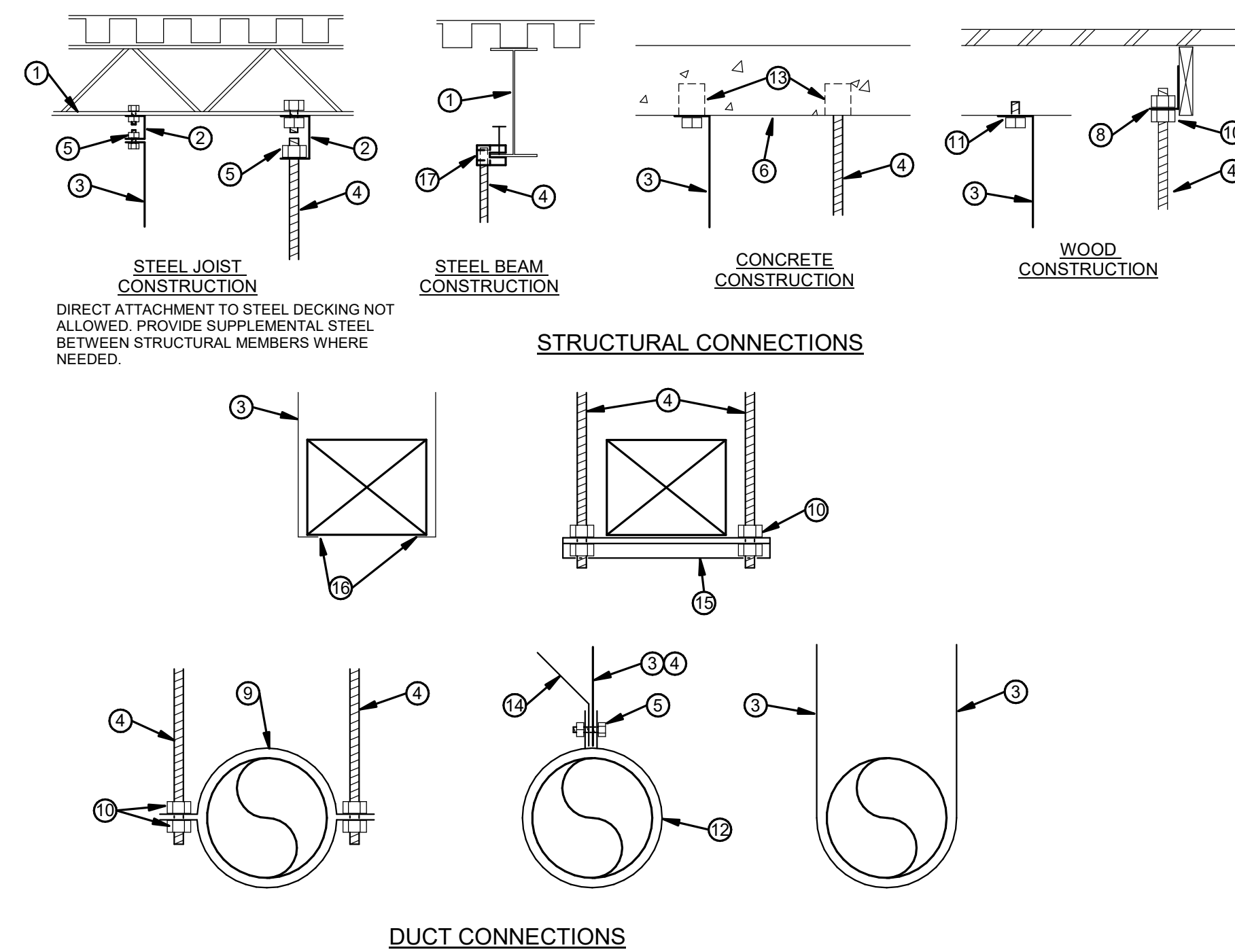


- WALL OPENING WITH FRAMING BY G.C.
- DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
- FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS BATT INSULATION.
- LINTEL BY G.C.
- WOOD OR METAL STUDS AT 16" O.C. BY G.C.
- DRYWALL BY G.C.
- MASONRY WALL BY G.C.
- FRAMED MASONRY OPENING BY G.C.

## 3 DUCT SEALING THRU NON-FIRE RATED WALL

N.T.S.

\* NEW CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA. ≥ 12"



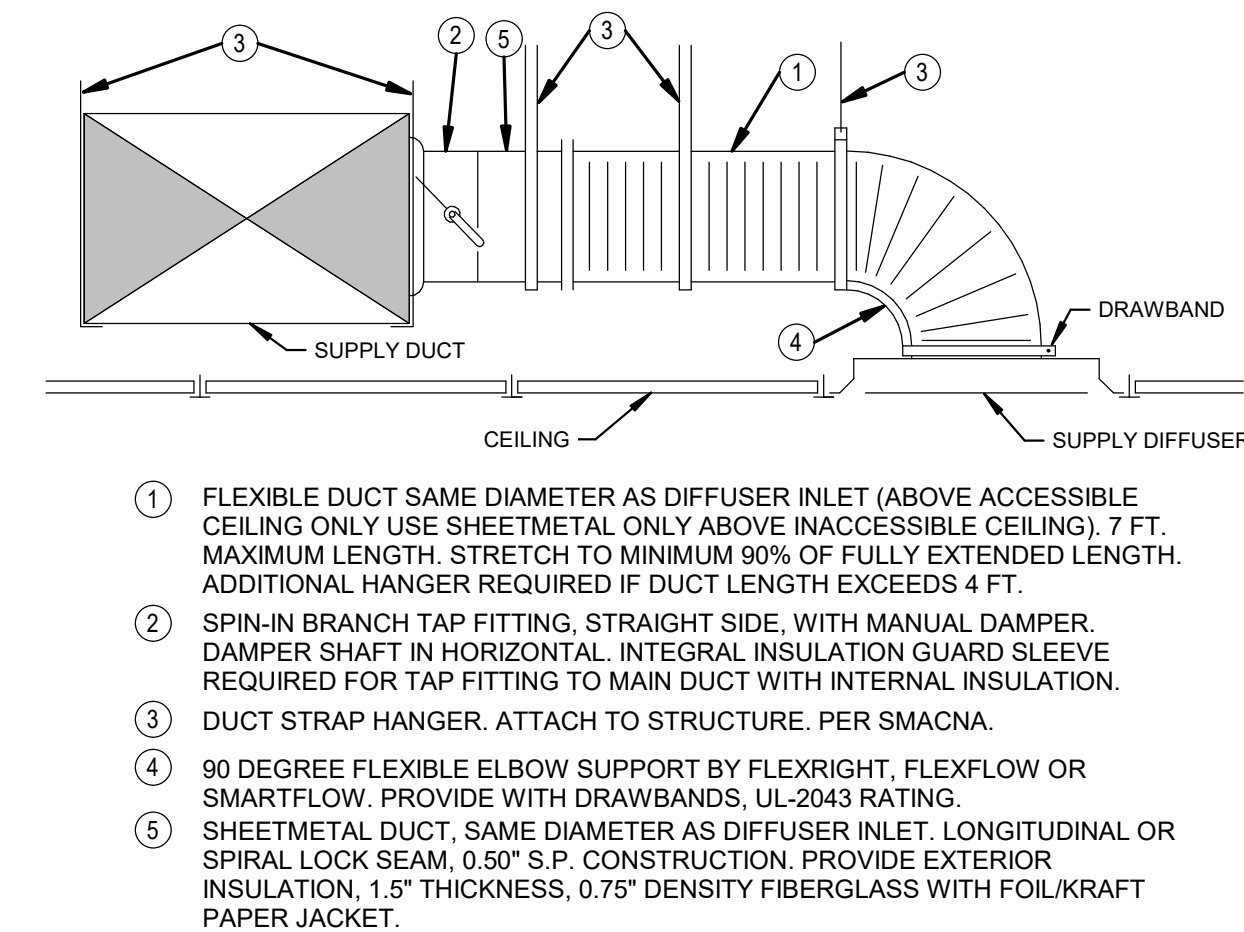
- STEEL JOIST OR BEAM.
- UNISTRUT CHANNEL SPANNING TWO JOIST OR BEAMS. ATTACH TO BOTTOM CHORDS OF TWO BEAMS OR JOIST WITH "C" CLAMP.
- GALVANIZED SHEETMETAL STRAP HANGER.
- GALVANIZED THREADED ROD.
- GALVANIZED BOLT & NUT.
- CONCRETE SLAB.
- WOOD DECK & BEAM.
- STEEL ANGLE CLIP ENGINEERED FASTENER FOR THREADED ROD INTO WOOD.
- TWO GALVANIZED BAND HANGERS.
- RETAINING NUTS & WASHERS.
- ATTACH TO BOTTOM OF WOOD BEAM OR JOIST WITH LAG BOLT.
- ONE PIECE GALVANIZED STEEL BAND HANGER.
- CONCRETE EXPANSION ANCHOR OR CONCRETE INSERT IN NEW CONSTRUCTION.
- SEISMIC SWAY BRACE ATTACHED TO STRUCTURE.
- PAINTED STEEL UNISTRUT CHANNEL.
- GALVANIZED STEEL RESTRAINT PER SMACNA REQUIREMENTS.
- THREADED ROD BEAM CLAMP.

NOTE:  
ALL HANGERS & SUPPORT OF DUCT SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS SECOND ADDITION - 1995.

## 2 DUCT HANGERS & SUPPORTS

METAL STRAP & ROD HANGERS

N.T.S.



## 4 CEILING DIFFUSER

N.T.S.



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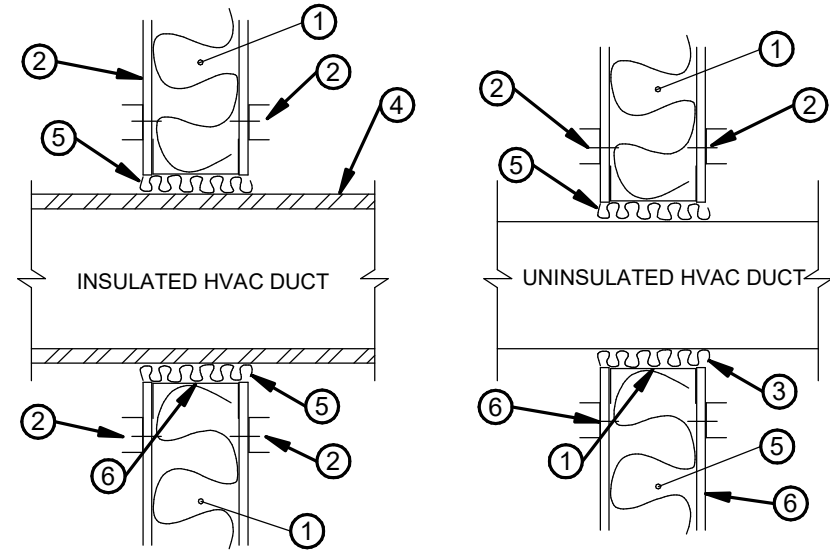
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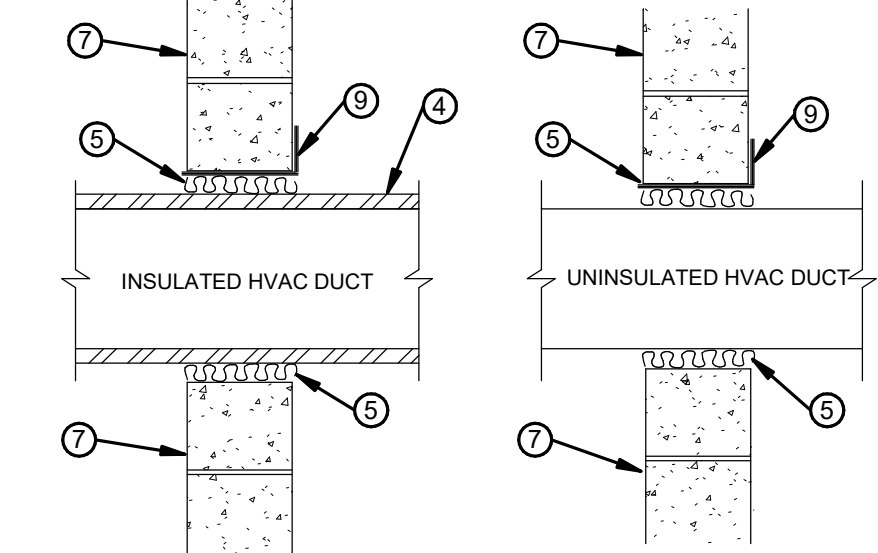
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7



- EXISTING FRAMING/WALL.
- NEW METAL STUD FRAMING MEMBER ON EXTERIOR SURFACE OF WALL. ATTACH TO THREE EXISTING WALL STUDS MIN. (BY H.C.)
- CUT AND REMOVE EXISTING METAL/WOOD STUD AS REQUIRED, AFTER INSTALLATION OF NEW MEMBER (BY H.C.)
- DUCT INSULATION, SEE SCHEDULE FOR THICKNESS.
- FILL VOID WITH 1.5" THICK, 0.75 P FIBERGLASS INSULATION, ALL FOUR SIDES.
- WIRE SCREEN ACROSS WALL CAVITY, BOTTOM OF DUCT ONLY.
- EXISTING MASONRY WALL.
- WALL OPENING BY H.C.
- STEEL LINTEL BY H.C. 4"x6"x5/16" ANGLE.



SECTION MASONRY PARTITION

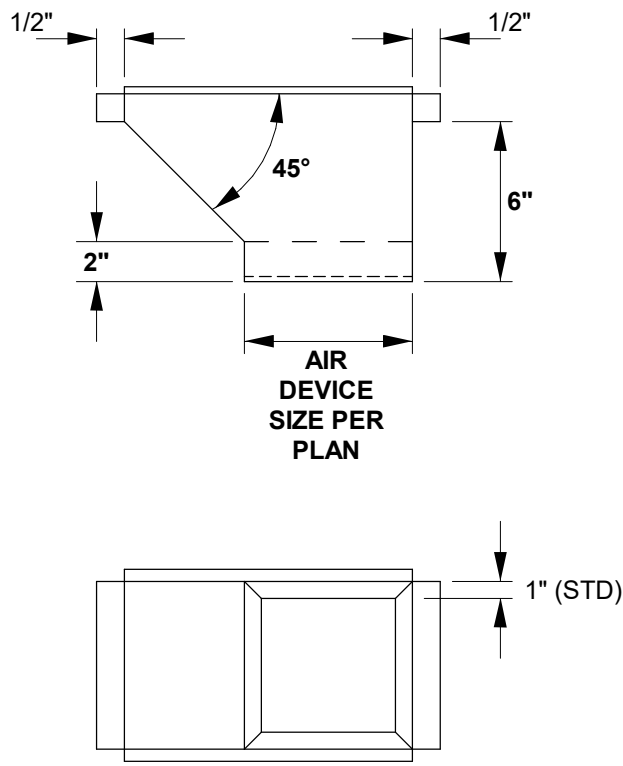
RECTANGULAR DUCT (ROUND DUCT SIMILAR)

ELEVATION MASONRY PARTITION

1 DUCT SEALING THRU NON-FIRE RATED WALL

N.T.S.

\* EXISTING CONSTRUCTION, FRAMED OPENING, DUCT SIDE OR DIA.  $\geq 12"$



2 RECTANGULAR LO-LOSS TAP

N.T.S.

ROUND MAIN - RECTANGULAR TAP

3 RECTANGULAR TRANSITION

N.T.S.

- NOTES:
- DIMENSIONS W1, W2, D1, AND D2 AS INDICATED ON THE DRAWINGS.
  - FOR LOW VELOCITY DUCTWORK (1800 FPM OR LESS)  
 $L1 = 4 \times (W1-W2)$  OR  $4 \times (D1-D2)$  WHICHEVER IS GREATER.  
 $L2 = 2 \times (W1-W2)$  OR  $2 \times (D1-D2)$  WHICHEVER IS GREATER.
  - FOR MEDIUM AND HIGH VELOCITY DUCTWORK (OVER 1800 FPM)  
 $L1 = 7 \times (W1-W2)$  OR  $7 \times (D1-D2)$  WHICHEVER IS GREATER.  
 $L2 = 3.5 \times (W1-W2)$  OR  $3.5 \times (D1-D2)$  WHICHEVER IS GREATER.

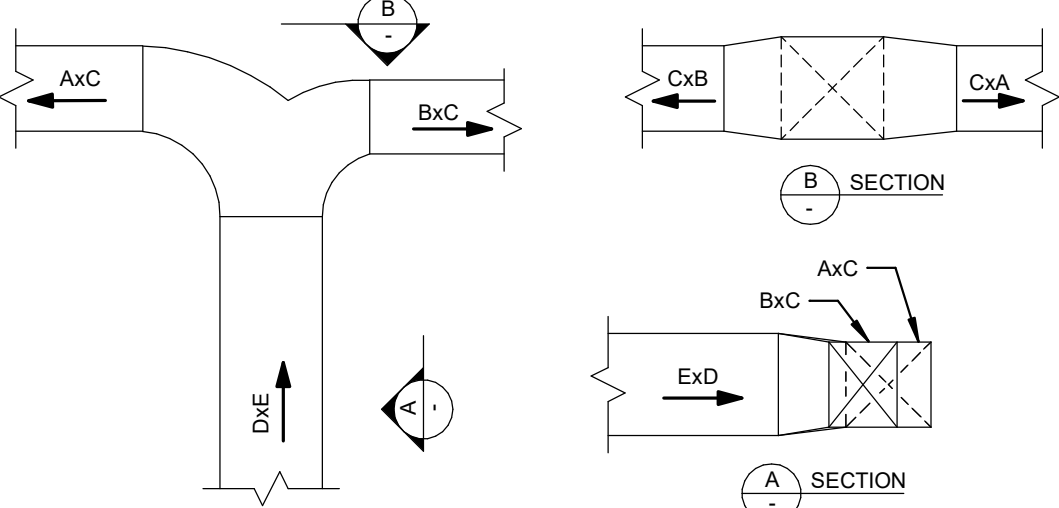
GENERAL NOTES

- FIRE DAMPERS SHALL BE UL CLASSIFIED.
- FIRE DAMPERS SHALL BE 1.5 HOUR RATED FOR 2 HOUR RATED WALLS OR LESS; 3 HOUR FIRE RATED FOR 3 HOUR WALLS.
- FIRE DAMPERS SHALL BE DYNAMIC RATED, CURTAIN TYPE, SPRING OPERATED
- DIFFERENTIAL PRESSURE RATING OF 4" MINIMUM, HIGHER WHERE REQUIRED TO MATCH DUCT CONSTRUCTION.
- 2000 FPM MAX. AIRFLOW RATING, EXCEPT 4000 FPM WHERE DESIGN DUCT VELOCITY IS OVER 2000 FPM.
- FIRE CLOSURE FUSIBLE LINK OF 165 DEG. F. EXCEPT WHERE REQUIRED TO BE HIGHER BY APPLICATION.
- GALVANIZED STEEL CONSTRUCTION IN GALVANIZED DUCT, STAINLESS STEEL IN OTHER APPLICATIONS.
- NOMINAL 4" STANDARD FRAME WIDTH.
- INSTALLATION OF FIRE DAMPERS AND ACCESSORIES INCLUDING INSULATION SHALL CONFORM TO NFPA 90A, SMACNA AND MANUFACTURER'S INSTRUCTIONS.
- DETAILS SHOW INSTALLATION OF FIRE DAMPER IN WALL. DAMPER INSTALLATION IN FLOOR SIMILAR. REFER TO PLANS FOR ACCESS LOCATION.

NOTE:  
AT 2 HR. FIRE WALL WITH DOUBLE WALL CONSTRUCTION, ONLY A SINGLE DAMPER IS REQUIRED PER 2006 NFPA 221 (NOT A HIGH CHALLENGE FIRE WALL) PROVIDE SINGLE SLEEVE CONTINUOUS THRU BOTH WALLS WITH FIRE DAMPER CENTERED IN SLEEVE FOR GYMNASIUM RETURN AIR. INSTALL SLEEVE DURING CONSTRUCTION OF WALL; TERMINATE SLEEVE IN MORTAR JOINTS AROUND OPEN AIR BLOCK (GYM SIDE). SLEEVE TO EXTEND THRU CORRIDOR SIDE WALL AND UTILIZE SINGLE SIDE MOUNTING ANGLE (RUSKIN FAST OR EQUAL). PROVIDE MULTIPLE SECTION DAMPER WITH FRAME AS REQUIRED FOR OPENING. CENTER TYPE "A" DAMPER(S) IN CORRIDOR SIDE WALL.

4 FIRE DAMPERS DETAIL

N.T.S.

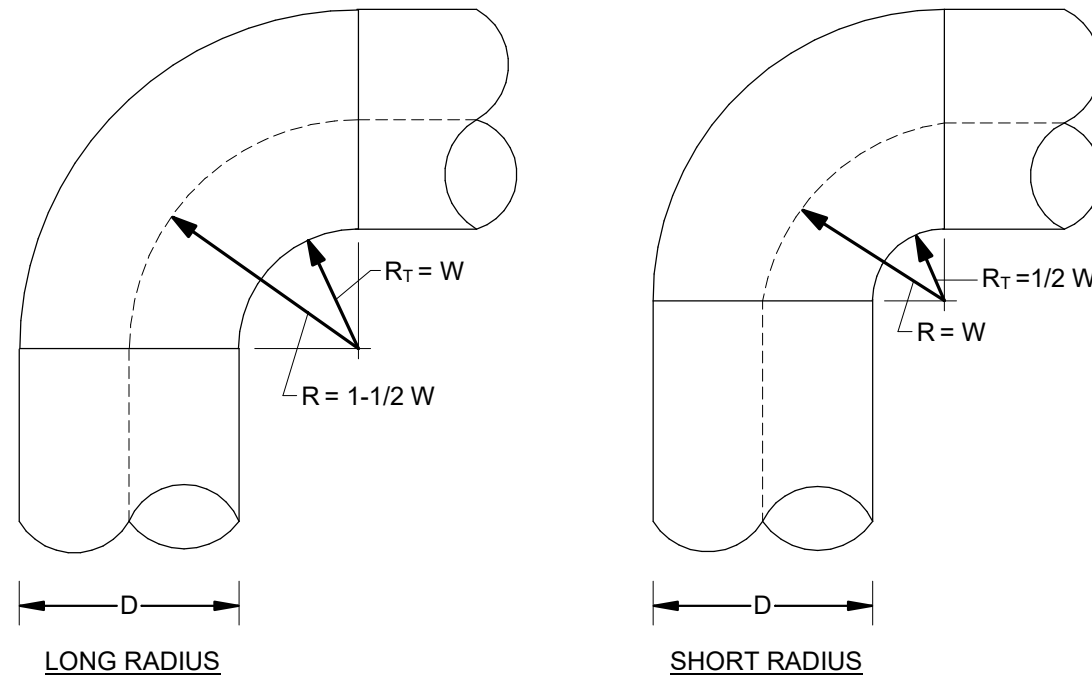


NOTES:

- DIMENSIONS A, B, C, D, AND E AS INDICATED ON DRAWINGS.
- TRANSITIONS SHOWN CONCENTRIC IN PLAN, MAY BE FLAT ON EITHER SIDE. TRANSITION SHOWN FLAT ON TOP IN SECTION, MAY BE FLAT ON BOTTOM OR CONCENTRIC. TRANSITION DUCT AS FIELD CONDITIONS DICTATE.
- SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIRFLOW IS REVERSED.

5 RECTANGULAR TEE REDUCING Y-BRANCHES

N.T.S.

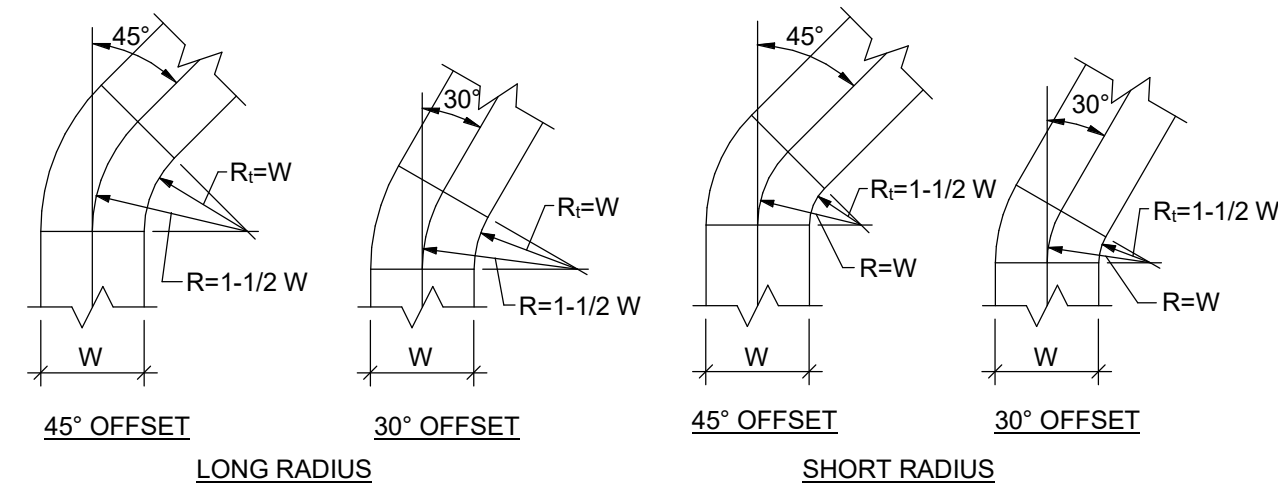


NOTES:

- DIMENSION D AS SHOWN ON THE DRAWINGS.
- USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
- ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

6 ROUND 90° RADIUS ELBOW

N.T.S.



NOTES:

- USE ONLY LONG RADIUS ELBOWS ON KITCHEN HOOD AND DISHWASHER HOOD EXHAUST DUCTWORK.
- USE LONG RADIUS ELBOWS ON ALL DUCTWORK SYSTEMS WHERE POSSIBLE OR UNLESS OTHERWISE INDICATED.
- ONLY WHEN IT IS IMPOSSIBLE TO USE LONG RADIUS ELBOWS, USE LARGEST POSSIBLE RADIUS WITH A MINIMUM RADIUS EQUAL TO THAT OF A SHORT RADIUS ELBOW.

7 RECTANGULAR 45° & 30° RADIUS ELBOW

N.T.S.

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PROJECT # 24066



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A

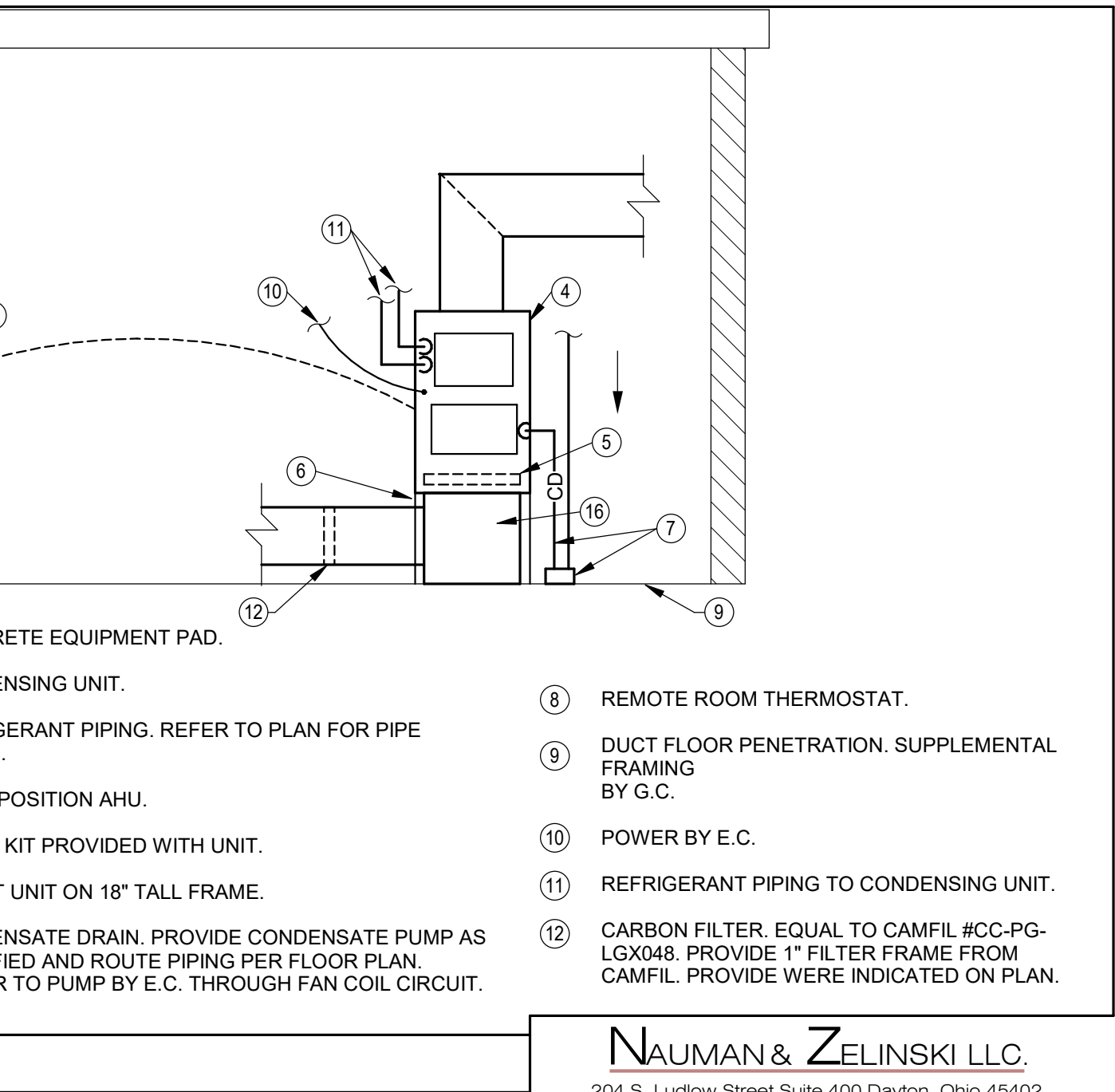
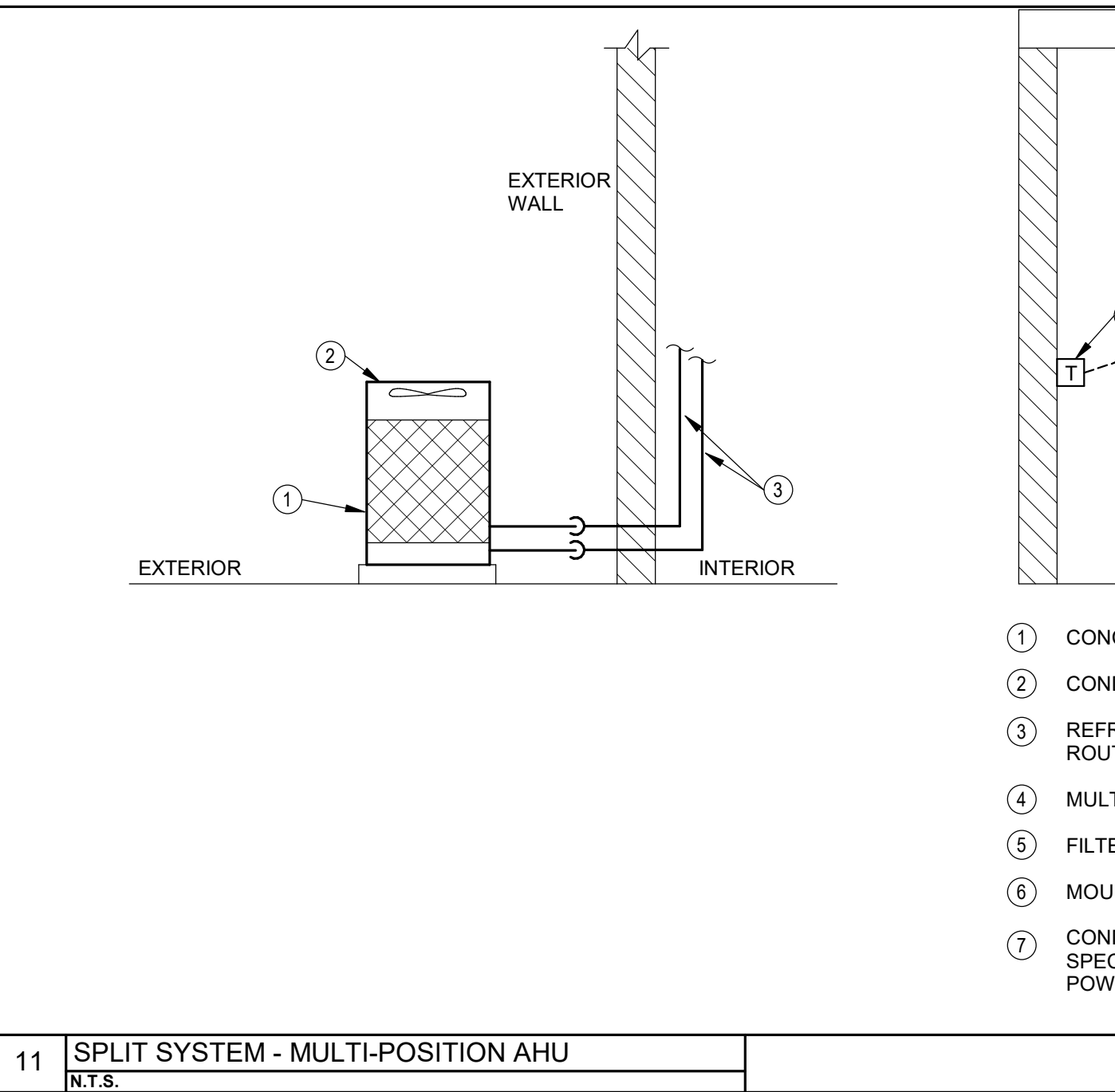
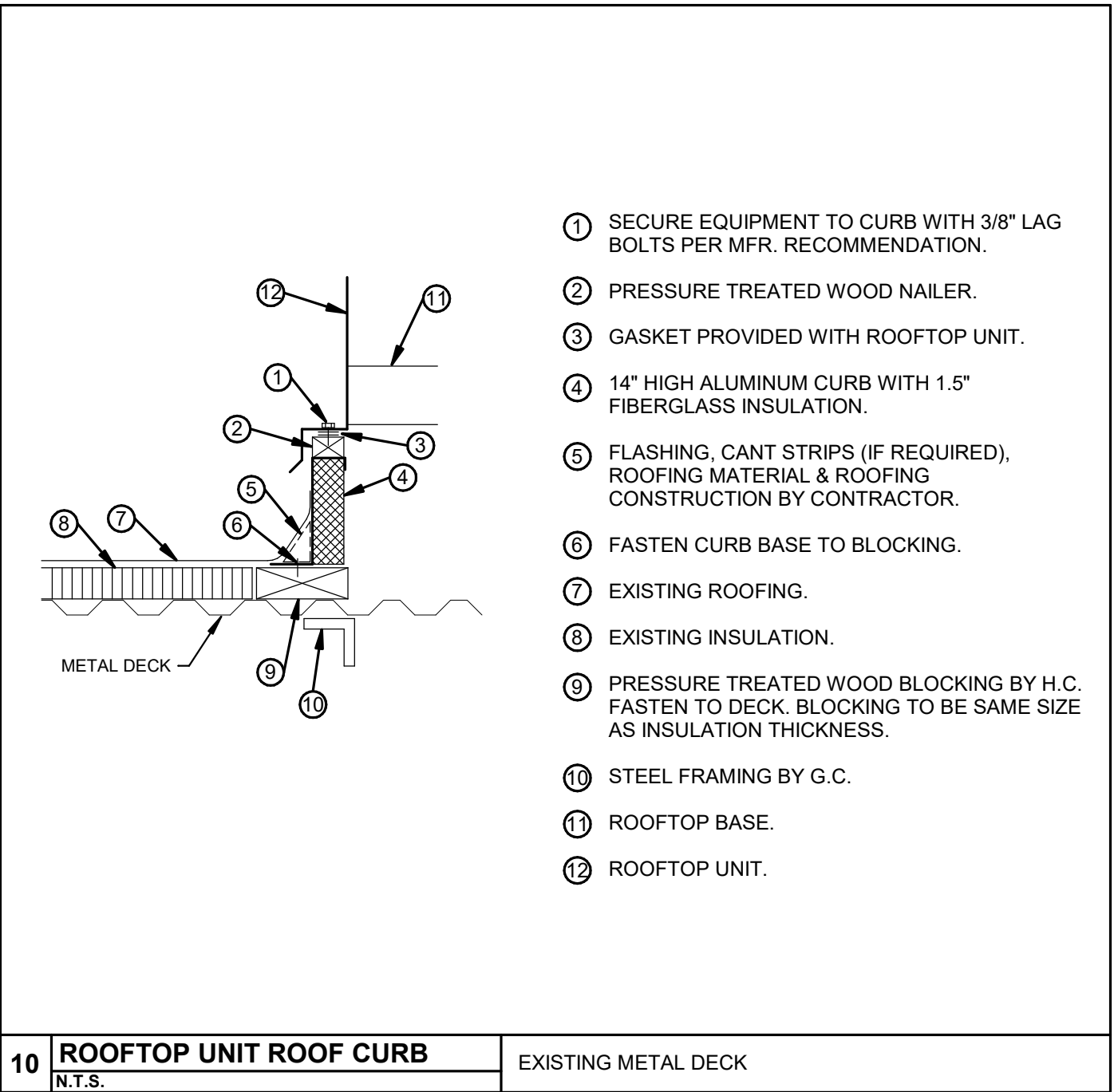
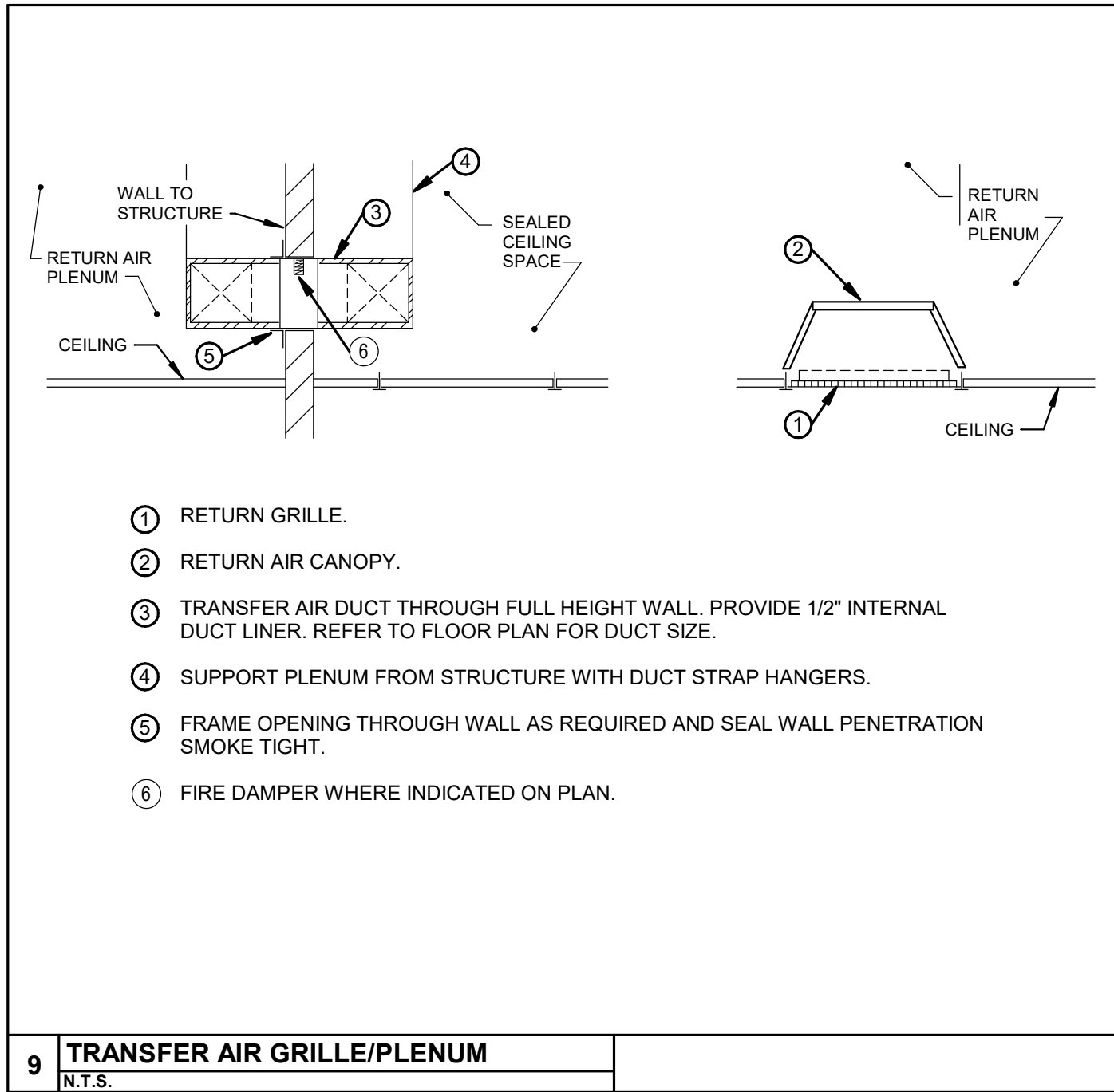
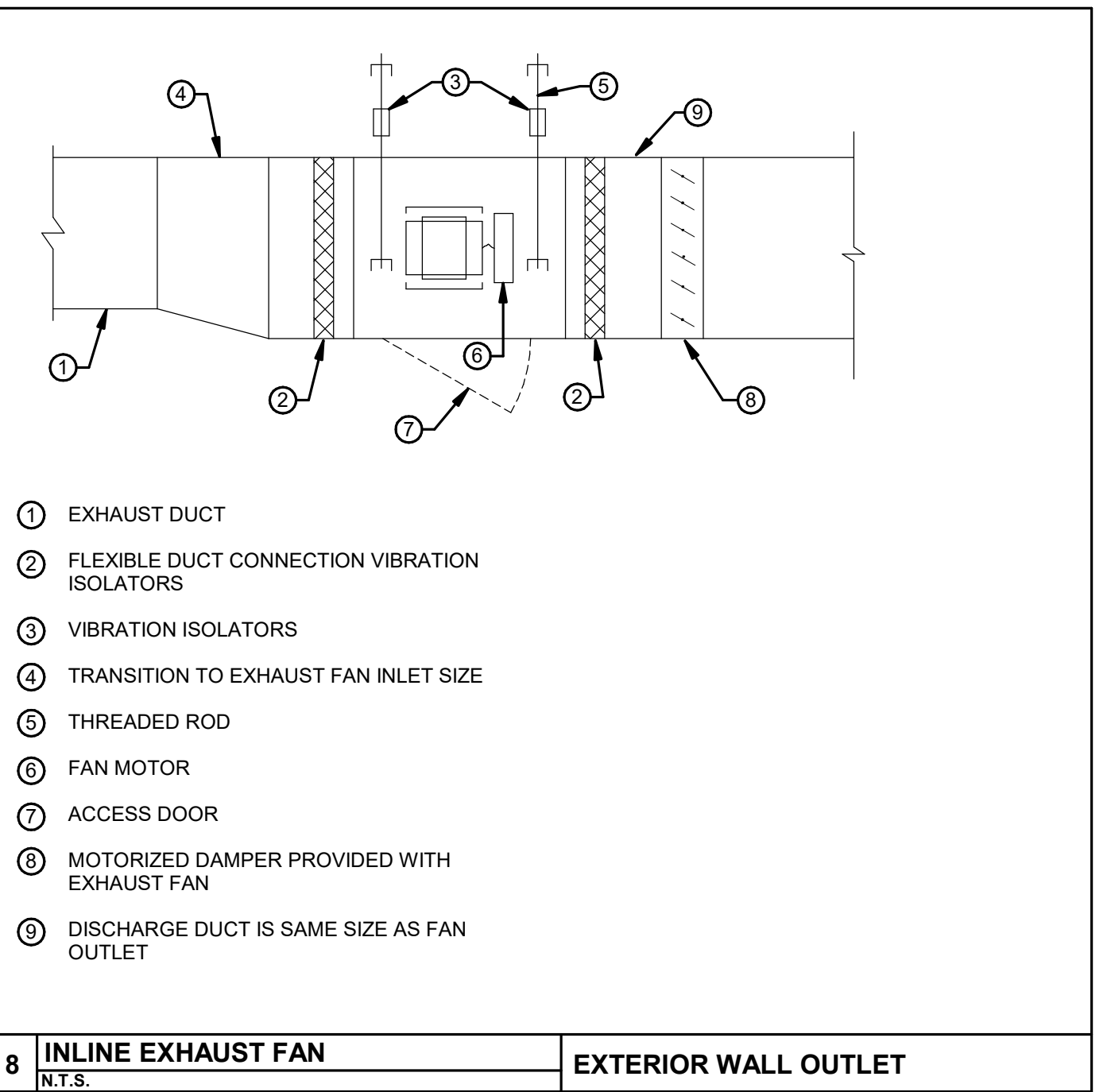
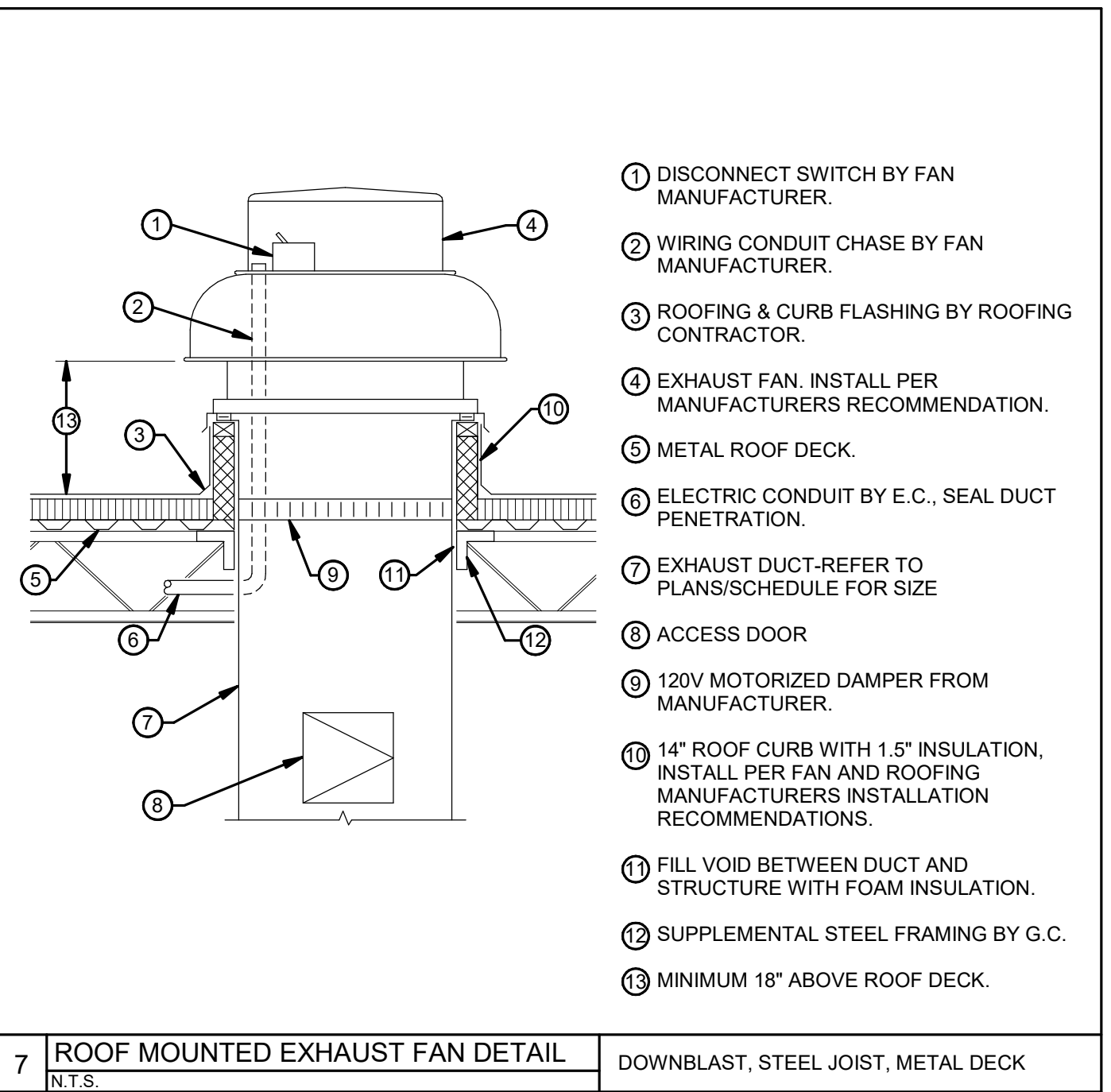
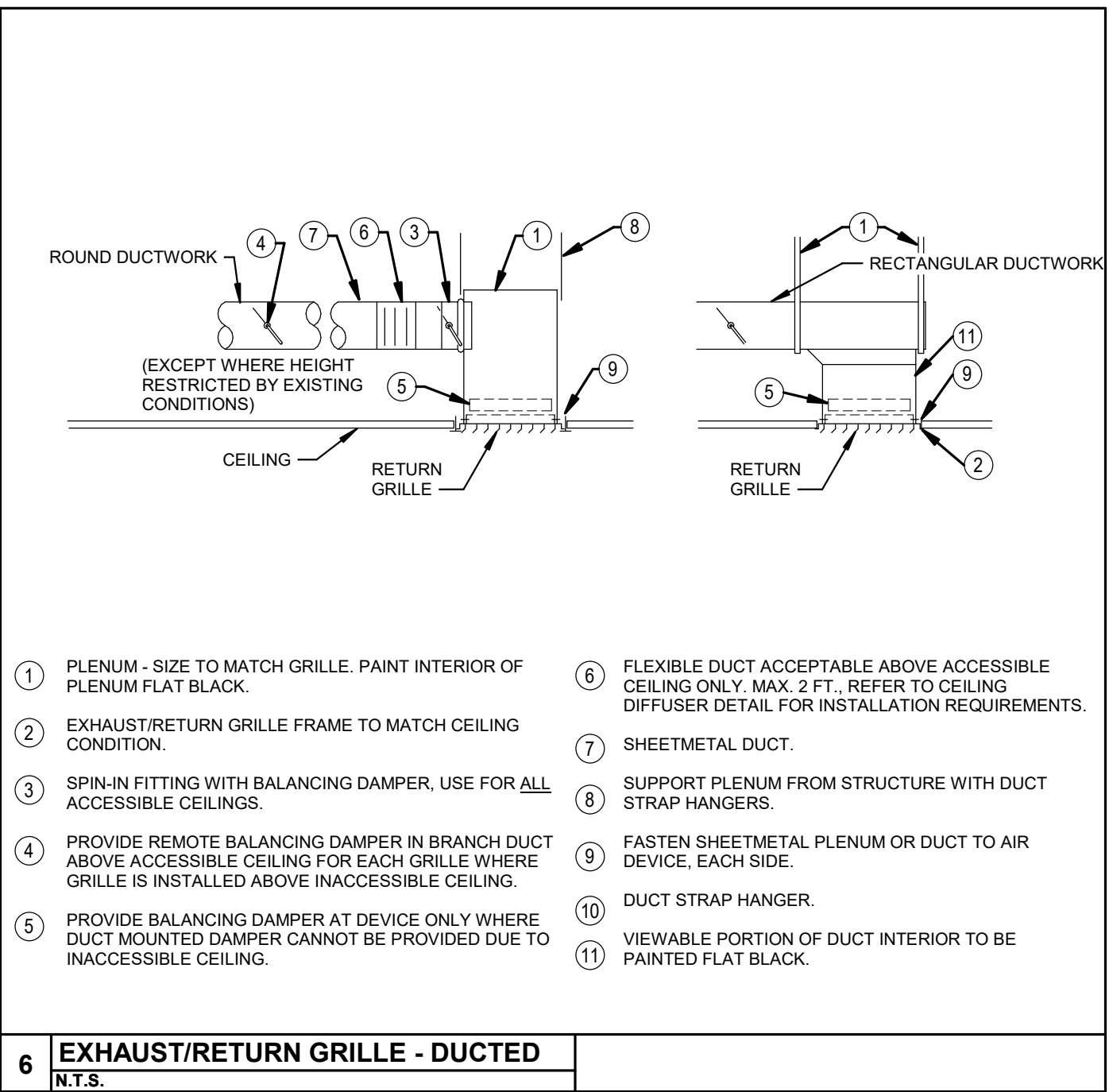
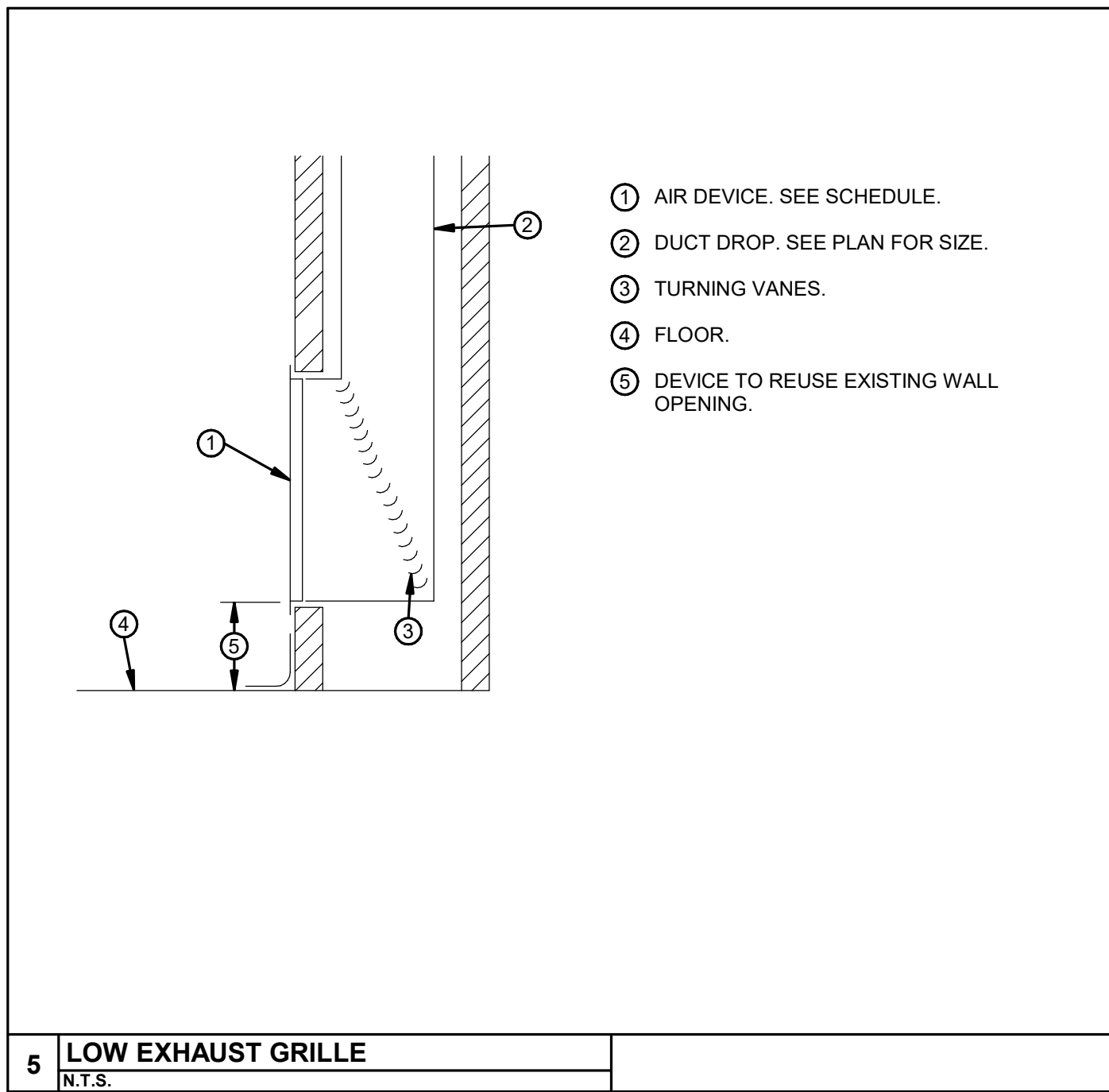
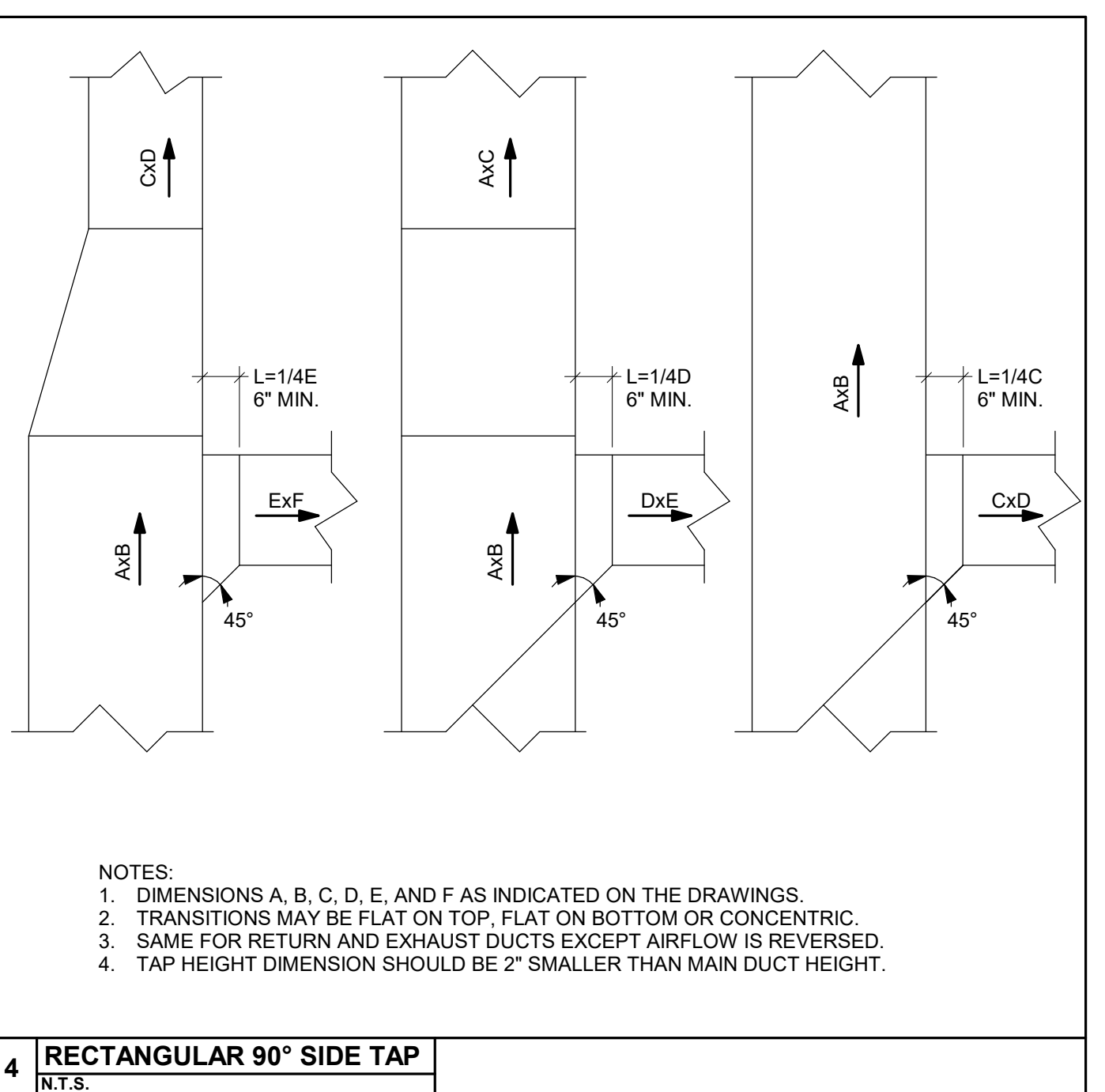
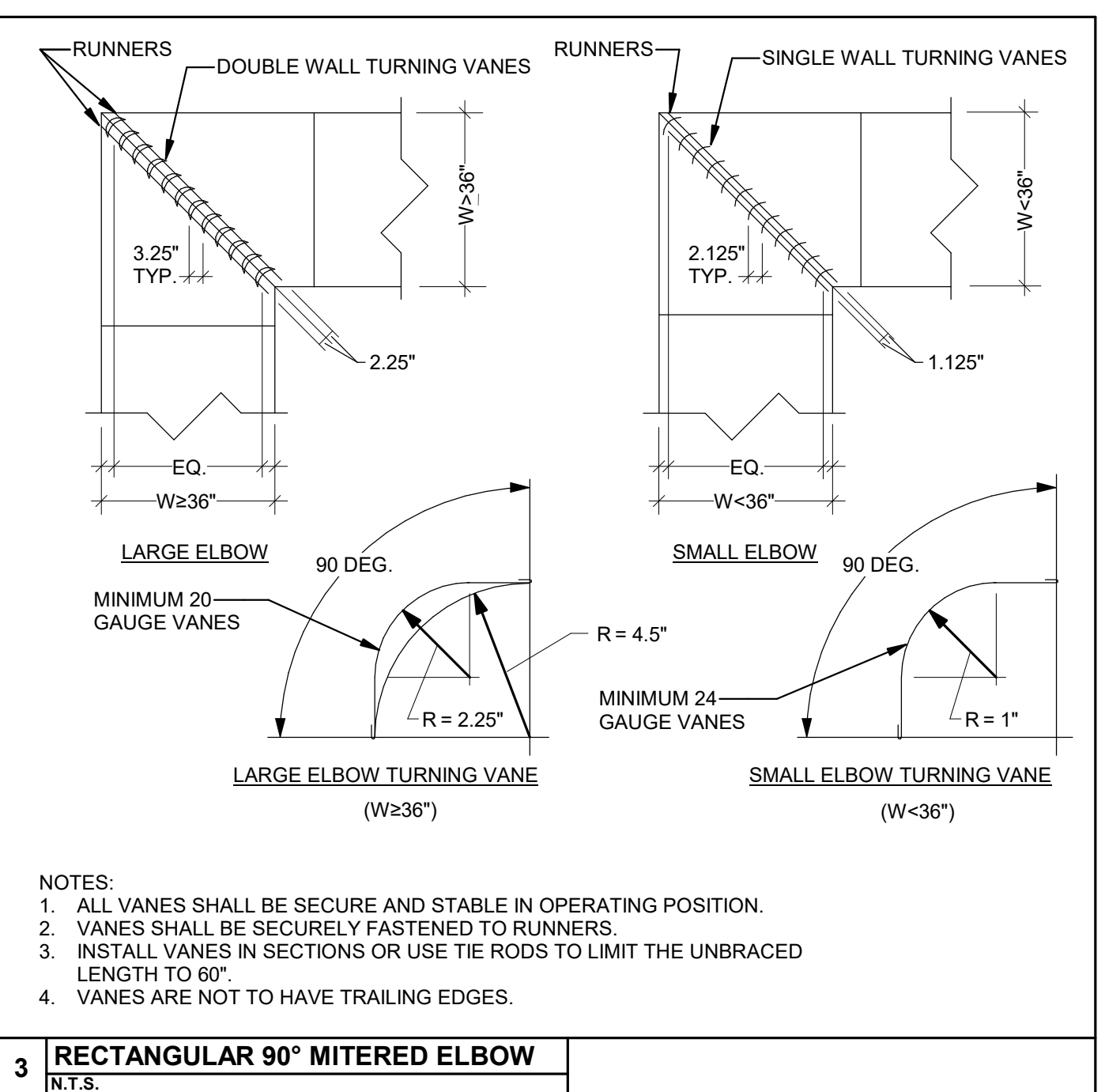
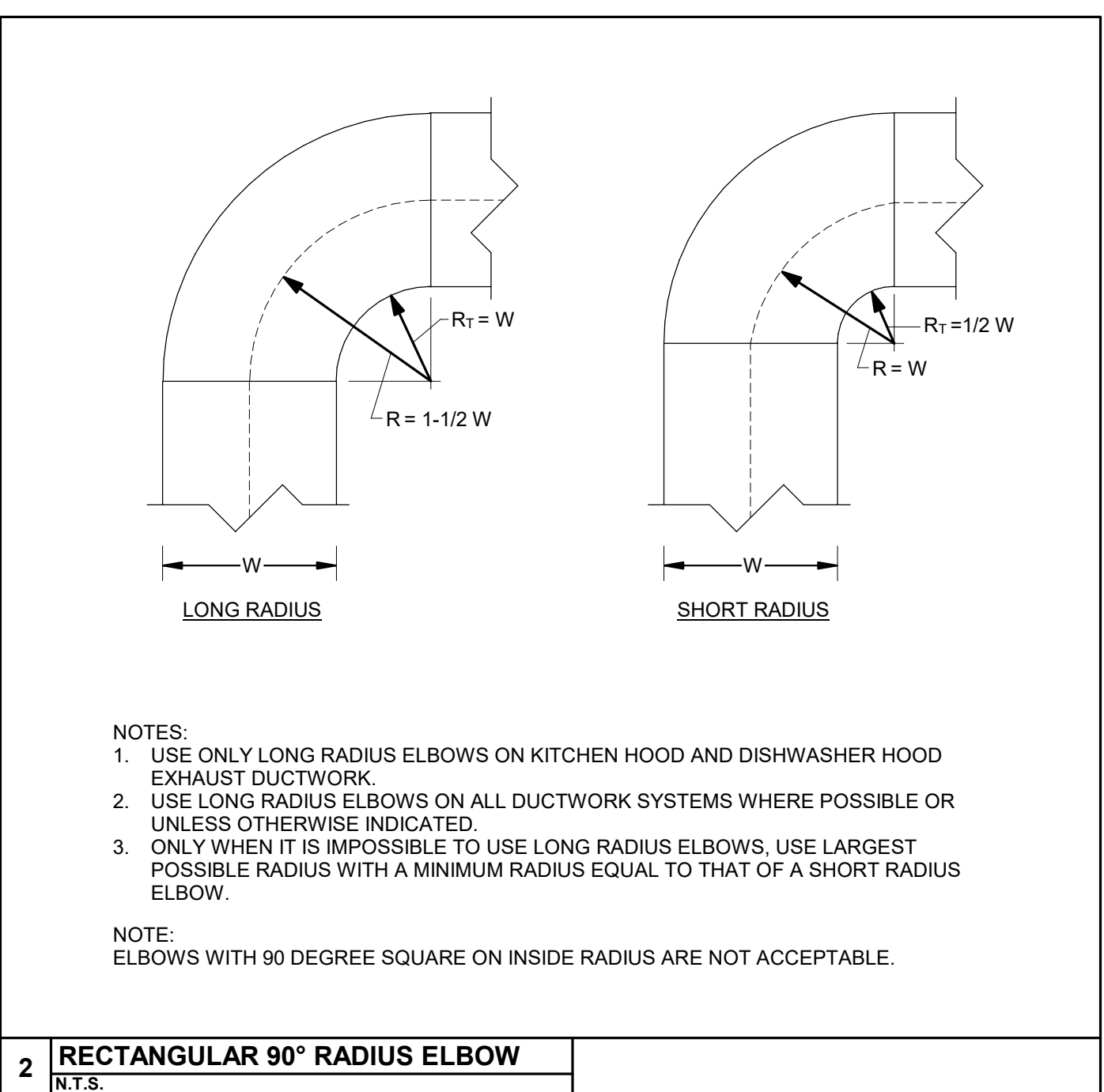
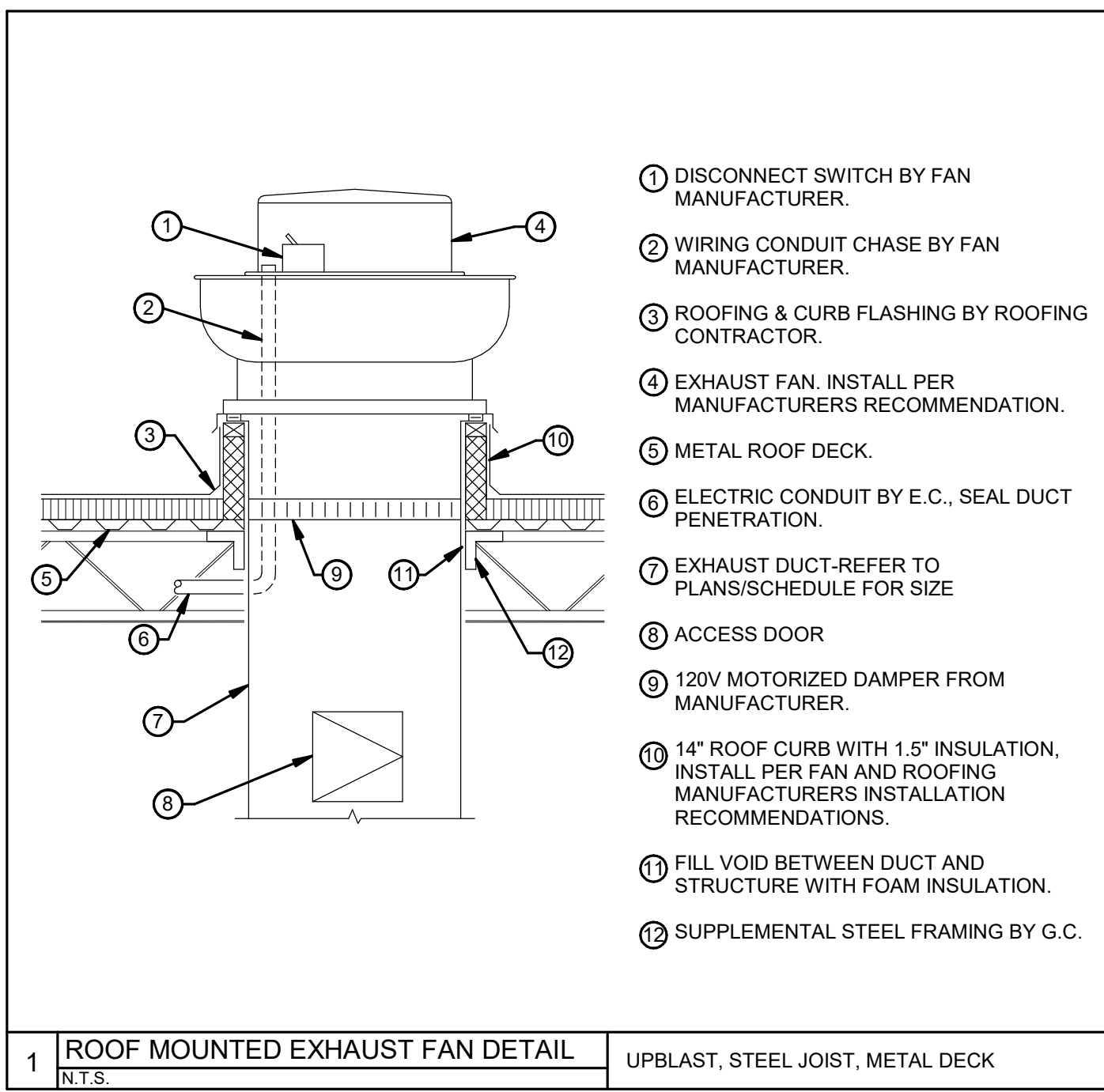
B

C

D

E

F



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63822

STATE OF OHIO  
REGISTERED PROFESSIONAL ENGINEER

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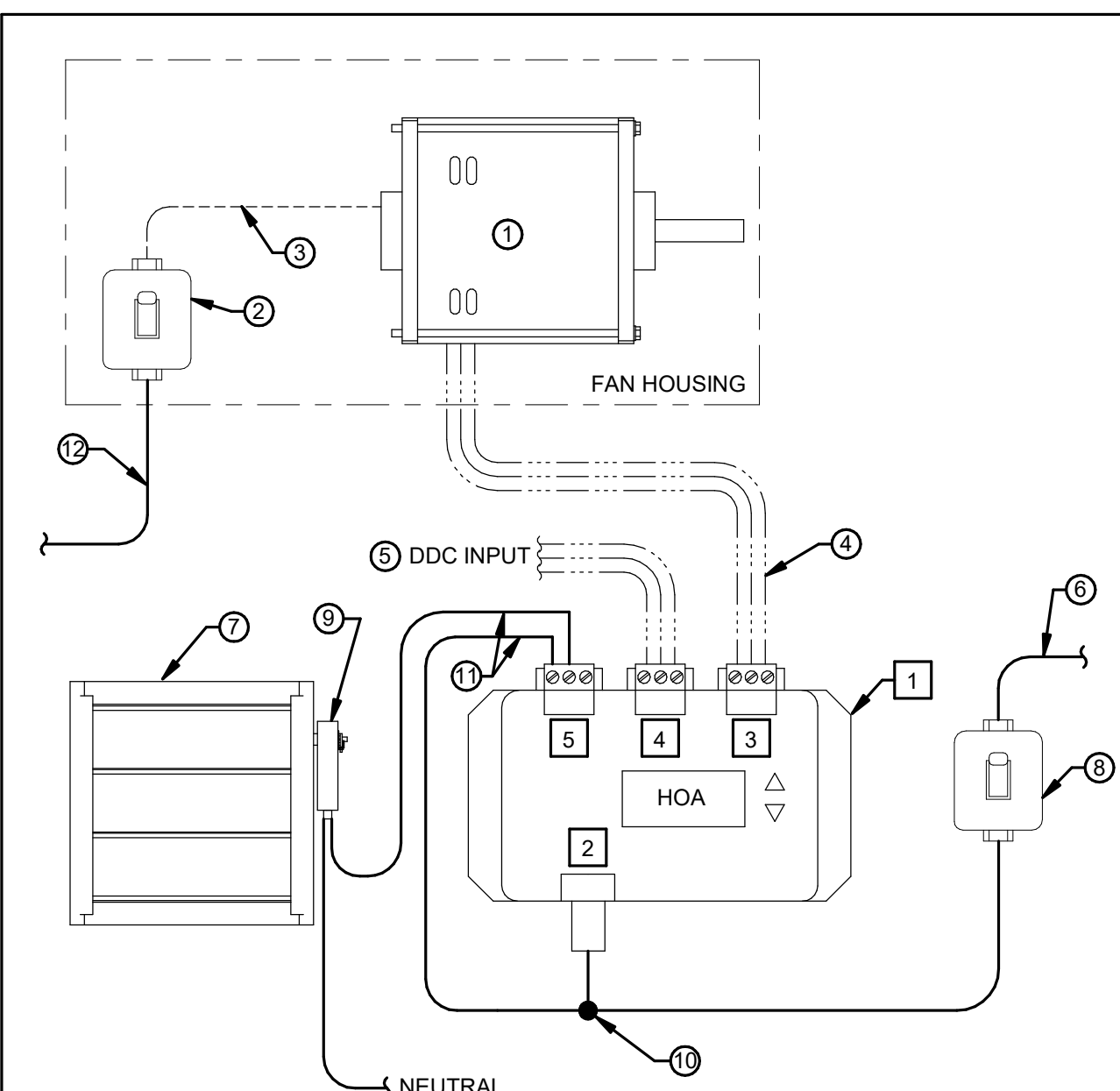
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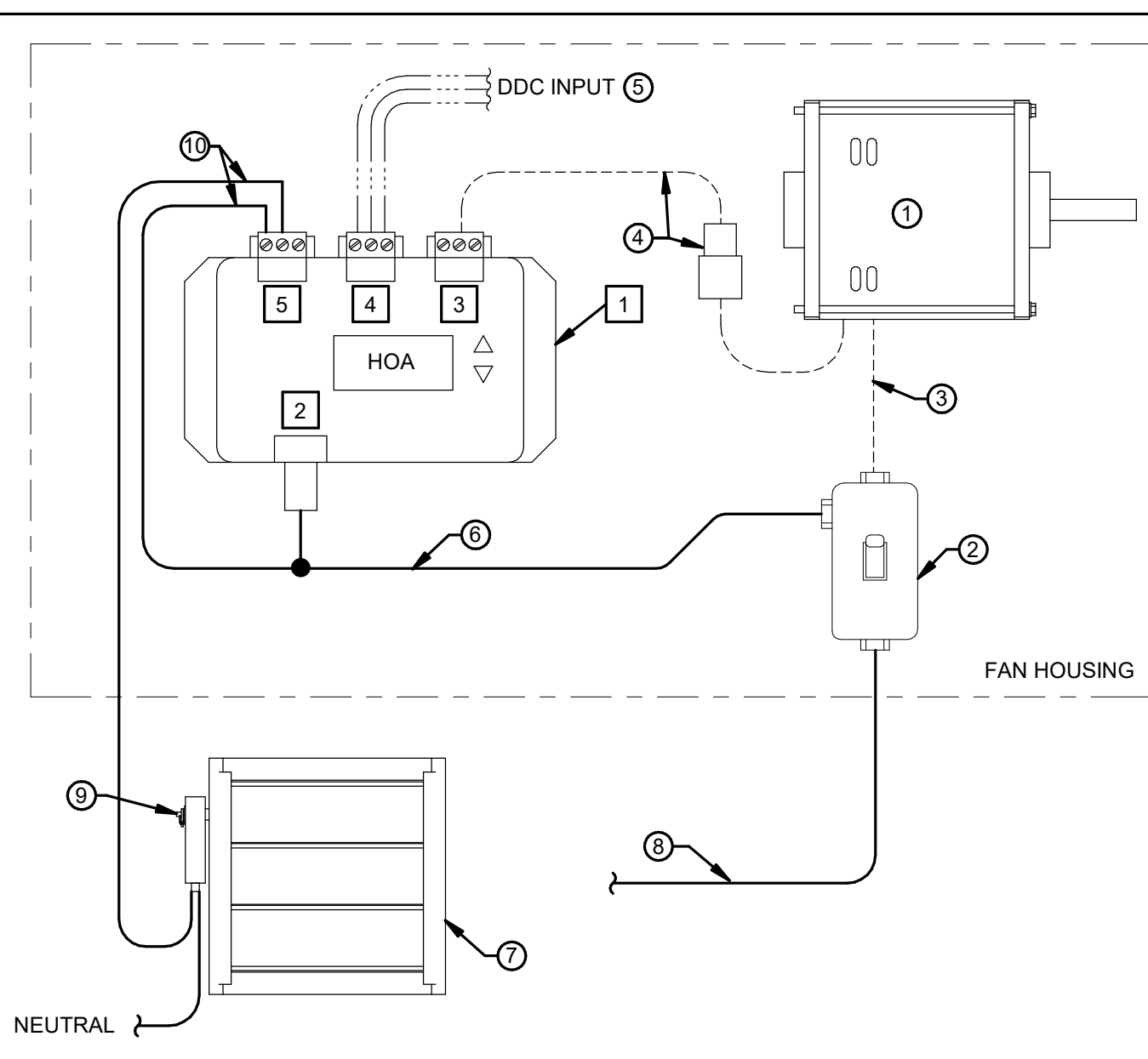
F



- # CONTROLLER NOTES**
- HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
  - 100 - 277V / 1 PHASE POWER TO CONTROLLER.
  - MOTOR CONTROL: 0-10 VDC, 24V, & COM.
  - DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
  - AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V. N.O., N.C., & COM.
- # DETAIL NOTES**
- ECM FAN MOTOR.
  - TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
  - THREE PHASE POWER SUPPLY WIRING BY MANUFACTURER.
  - DDC CONTROL WIRING TO FAN BY H.C.
  - DDC INPUT CONTROL WIRING BY H.C.
  - 120V POWER BY E.C.
  - DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
  - TOGGLE DISCONNECT SWITCH BY E.C.
  - 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
  - TAP 120V TO PROVIDE POWER TO BOTH HOA CONTROLLER AND DAMPER ACTUATOR.
  - WIRE 120V DAMPER POWER THROUGH AUXILIARY CONTACT.
  - FAN SUPPLY CIRCUIT BY E.C.

----- WIRING BY H.C.  
----- WIRING BY E.C.  
----- WIRING BY MANUFACTURER

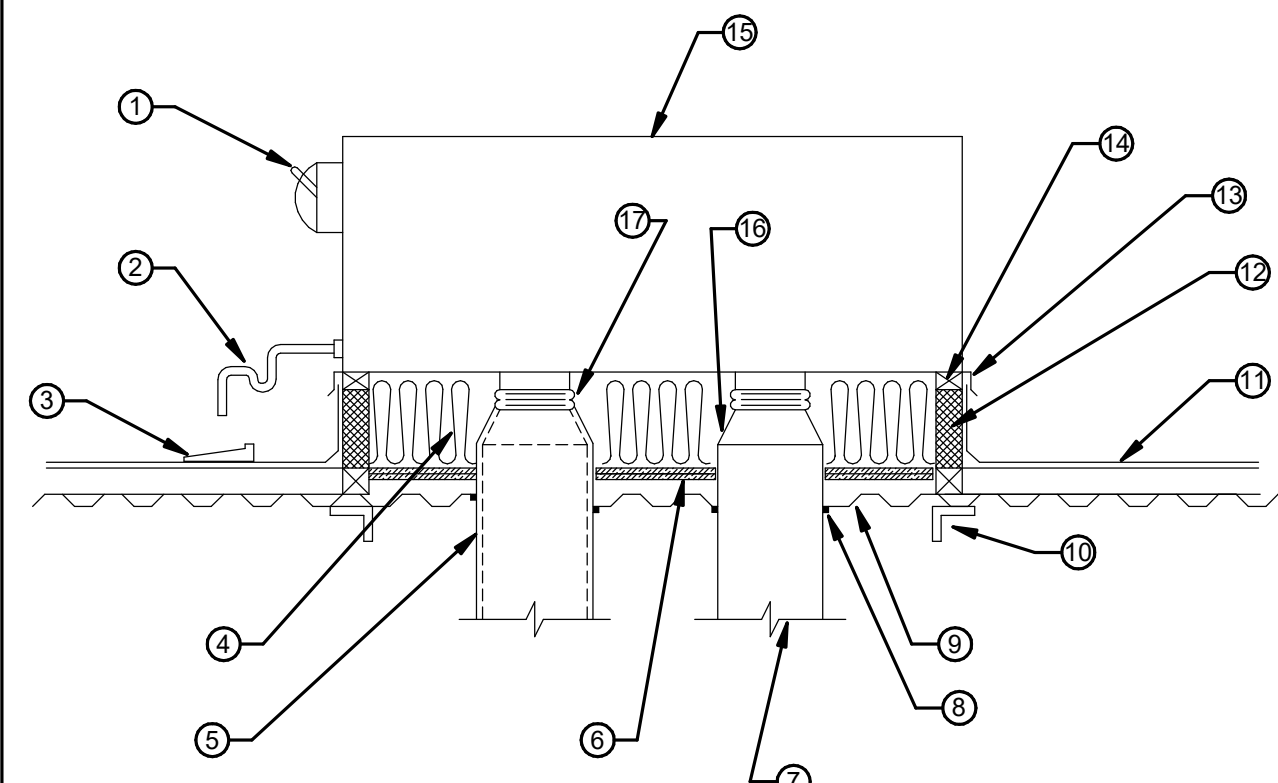
1 HOA CONTROLLER - THREE PHASE ECM FAN WIRING DIAGRAM  
N.T.S.



- # CONTROLLER NOTES**
- HAND/OFF/AUTO ECM FAN CONTROLLER BY FAN MANUFACTURER. MOUNTED IN FAN HOUSING OR IN BUILDING ADJACENT TO FAN.
  - 100 - 277V / 1 PHASE POWER TO CONTROLLER.
  - MOTOR CONTROL: 0-10 VDC, 24V, & COM.
  - DDC CONTROL SIGNAL: 0-10 VDC, 24V, & COM.
  - AUX. CONTACT, LINE OR LOW VOLTAGE. RATED FOR 10A @ 24-250V. N.O., N.C., & COM.
- # DETAIL NOTES**
- ECM FAN MOTOR.
  - TOGGLE DISCONNECT MOUNTED IN FAN HOUSING BY FAN MANUFACTURER.
  - SINGLE PHASE WIRING BY MANUFACTURER.
  - CONTROL WIRING BY MANUFACTURER.
  - DDC INPUT CONTROL WIRING BY H.C.
  - LINE VOLTAGE TO POWER MOTORIZED DAMPER BY E.C. TAP ON LOAD SIDE OF TOGGLE SWITCH. PROVIDES POWER TO HOA CONTROLLER AND DAMPER ACTUATOR.
  - DUCT MOUNTED MOTORIZED DAMPER BY FAN MANUFACTURER.
  - SUPPLY CIRCUIT POWER TO DISCONNECT BY E.C.
  - 120V MOTORIZED DAMPER ACTUATOR PROVIDED BY H.C.
  - WIRE 120V DAMPER POWER THROUGH AUXILIARY CONTACT.

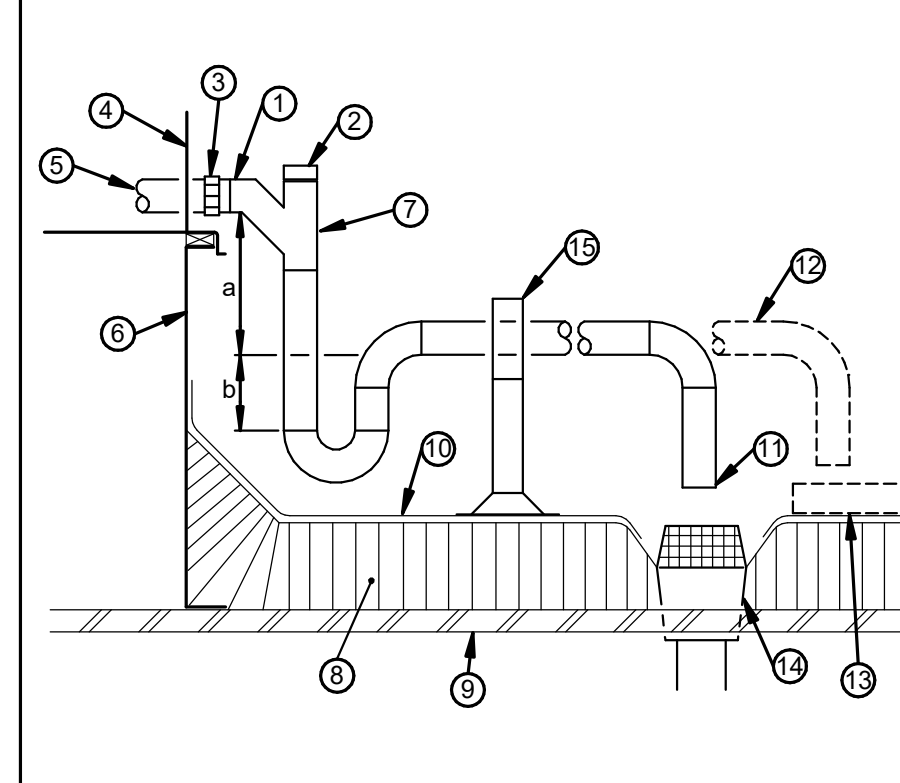
----- WIRING BY H.C.  
----- WIRING BY E.C.  
----- WIRING BY MANUFACTURER

2 HOA CONTROLLER - SINGLE PHASE ECM FAN WIRING DIAGRAM  
N.T.S.



- # ELECTRICAL DISCONNECT W/ GFI RECEPTACLE SUPPLIED BY UNIT MANUFACTURER. POWER CONN. BY E.C. POWER ROUTED THROUGH ROOF CURB INTO UNIT.**
- # CONDENSATE DRAIN, REFER TO DETAIL**
- # PROVIDE CONCRETE SPLASH BLOCK ON NEOPRENE PAD UNDER CONDENSATE DRAIN**
- # FILL ALL VOIDS BETWEEN ROOF DECK & BOTTOM OF UNIT WITH UNFACED BATT INSULATION**
- # EXTERNALLY INSULATED SUPPLY DUCT, REFER TO PLANS FOR SIZE**
- # PROVIDE TWO LAYERS OF 5/8" WATER RESISTANT GYPSUM BOARD ON ROOF DECK**
- # RETURN DUCT, REFER TO PLANS FOR SIZE**
- # SEAL AROUND DUCT PENETRATIONS, TYP.**
- # ROOF OPENINGS SHALL BE NO LARGER THAN REQUIRED FOR DUCT PENETRATIONS.**
- # STRUCTURAL SUPPORT BY OTHERS, TYP.**
- # FLASHING, CANT STRIPS (IF REQUIRED), ROOFING MATERIAL & ROOF CONSTRUCTION BY ROOFING CONTRACTOR**
- # 14" HIGH INSULATED ROOF CURB PROVIDED BY THE H.C. SEE DETAIL.**
- # COUNTER FLASHING BY H.C.**
- # NAILING STRIP**
- # ROOFTOP UNIT - REFER TO PLANS FOR CAPACITIES**
- # DUCT TRANSITION AS REQUIRED, TYP.**
- # FLEXIBLE DUCT CONNECTION, TYP.**

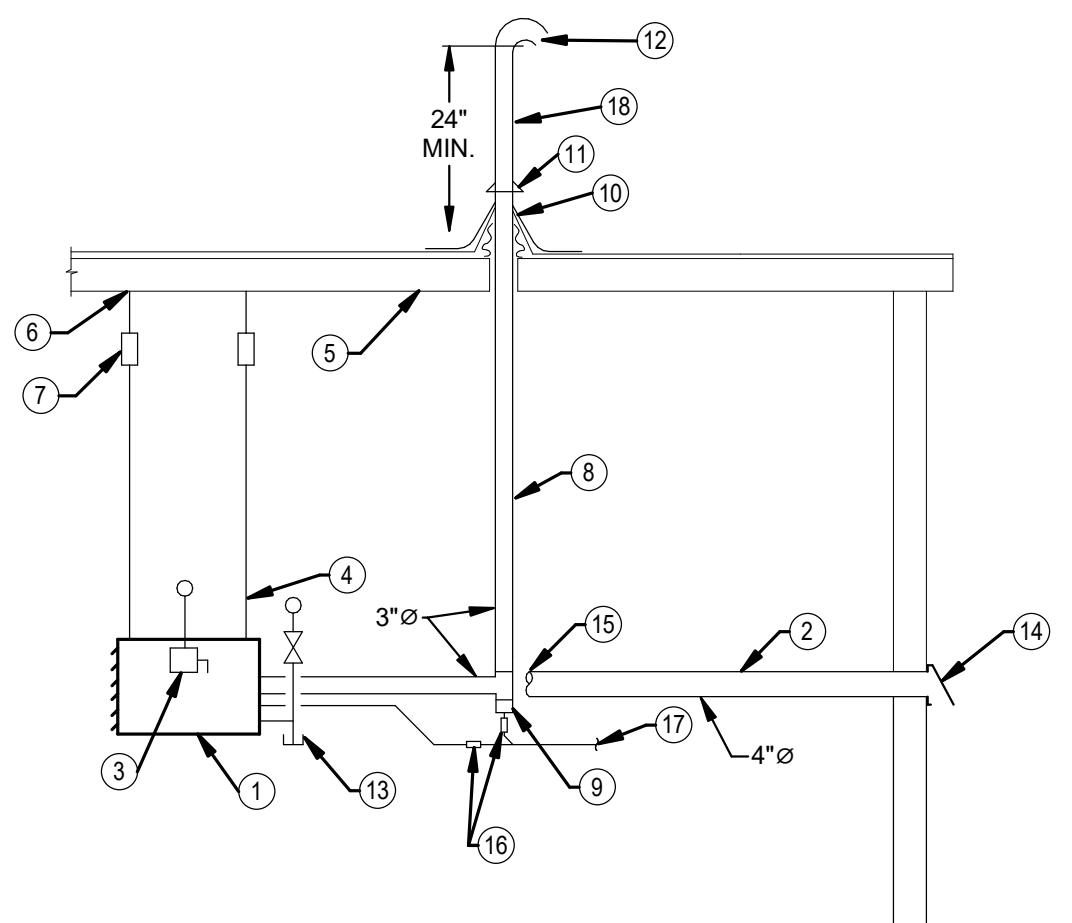
3 ROOFTOP UNIT  
N.T.S.



- # DRAIN PIPE, SAME SIZE AS UNIT OUTLET.**
- # CLEANOUT PLUG.**
- # UNION.**
- # SIDE OF ROOFTOP UNIT.**
- # FROM DRAIN PAN.**
- # 14" HIGH ROOF CURB. SEE DETAIL.**
- # DRAINAGE WYE FITTING.**
- # ROOF INSULATION.**
- # ROOF DECK.**
- # ROOFING MEMBRANE.**
- # OPEN DRAIN - 1" AIR GAP.**
- # ALTERNATE ROUTING OF DRAIN.**
- # 12"x12"x1" THICK CONCRETE SPLASH BLOCK. PLACE ON TOP OF ADDITIONAL PIECE OF ROOFING MEMBRANE.**
- # ROOF DRAIN.**
- # ADJUSTABLE PIPE SUPPORT. ERICO CADDY PYRAMID EZ OR EQUAL. SET SUPPORT ON MEMBRANE.**

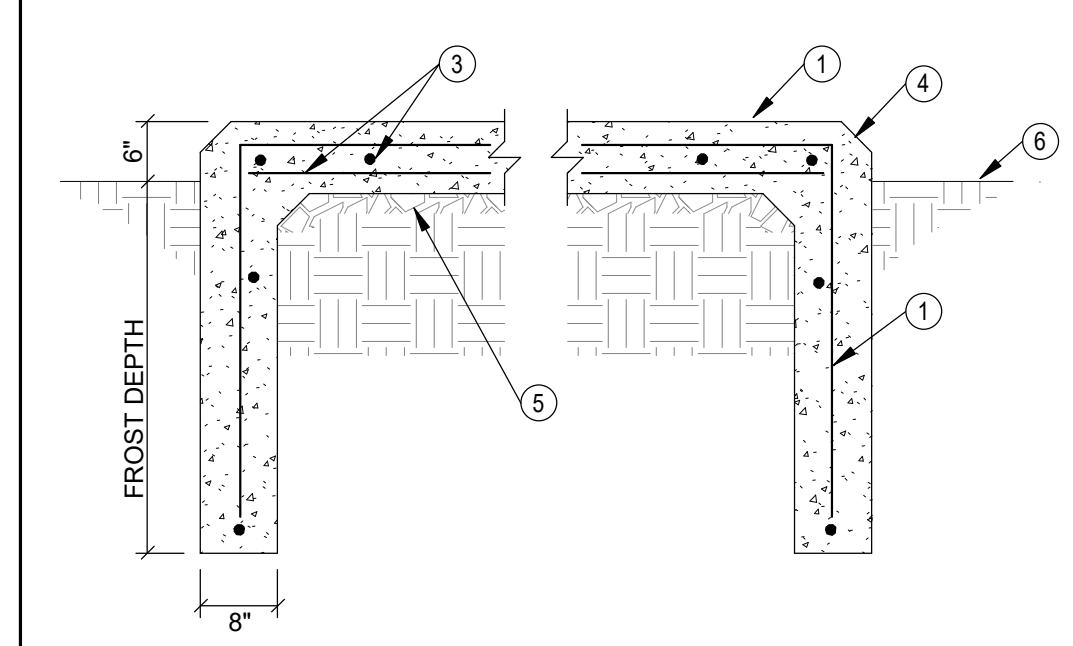
**CALCULATIONS:**  
a = SUPPLY FAN T.S.P. + 1"  
b = a / 2  
-VERIFY FAN T.S.P. WITH UNIT MANUFACTURER.

4 ROOFTOP COOLING COIL CONDENSATE PIPING  
N.T.S.



- # GAS FIRED UNIT HEATER.**
- # 4" COMBUSTION INTAKE DUCT.**
- # DISCONNECT SWITCH WITH UNIT.**
- # THREADED ROD HANGER.**
- # ROOF STRUCTURE.**
- # SECURE TO STRUCTURE.**
- # VIBRATION ISOLATOR.**
- # 4" VENT DUCT.**
- # CLEAN OUT CAP WITH STANDARD VENT DRIP LEG.**
- # S.S. FLASHING CONE. SEAL PENETRATION THROUGH ROOF WATERTIGHT.**
- # STORM COLLAR.**
- # GOOSENECK AND BIRD SCREEN ON FLUE VENT.**
- # NATURAL GAS CONNECTION, SHUTOFF VALVE, AND DIRT LEG BY P.C.**
- # 4" INTAKE CAP WITH BIRD SCREEN. COLOR BY ARCHITECT, PAINTING BY G.C.**
- # EXTEND COMBUSTION AIR DUCT TO UNIT HEATER.**
- # WATERLESS CONDENSATE TRAPS PROVIDED WITH UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATION.**
- # EXTEND CONDENSATE DRAIN TO FLOOR DRAIN IN TOWER.**
- # CUSTOM PAINT COLOR SELECTED BY ARCHITECT, FINAL PAINTING BY G.C.**

5 GAS FIRED UNIT HEATER  
N.T.S.



- # 6" THICK CONCRETE PAD. 3,500 PSI.**
- # #4 BENT REBAR DOWEL @ 16" O.C.**
- # #4 REBAR @ 12" O.C. EACH WAY.**
- # 3/4" CHAMFER ALL EDGES.**
- # COMPACTED #57 CRUSHED GRAVEL FILL. 4" THICKNESS MIN.**
- # GRADE.**

6 EXTERIOR CONCRETE EQUIPMENT PAD  
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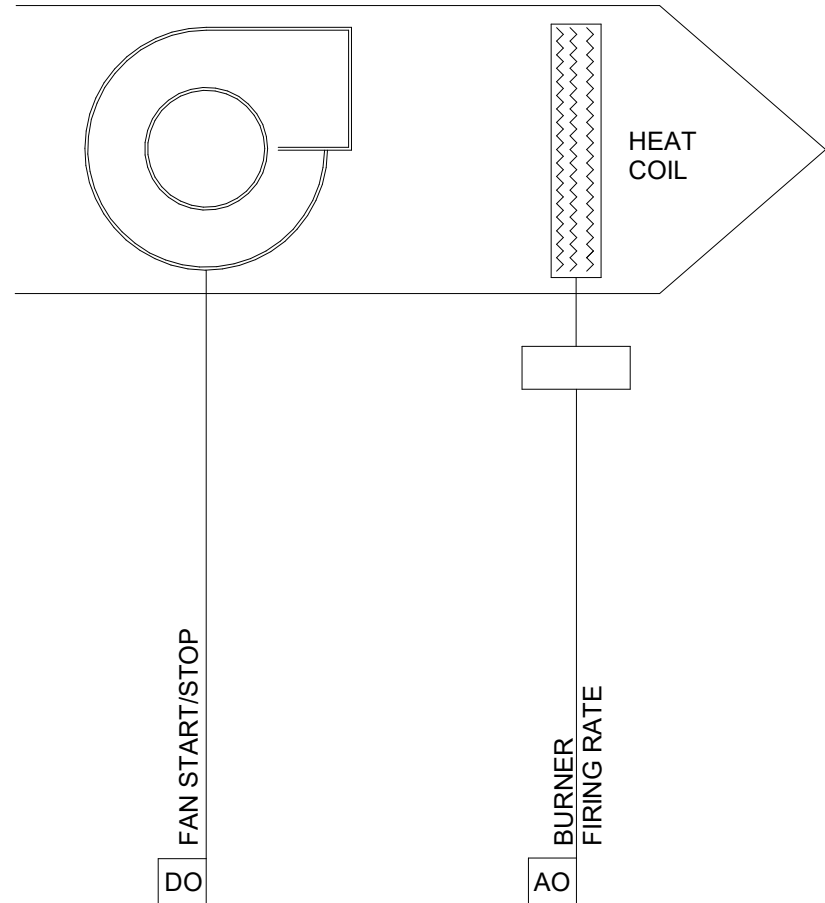
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MONITORING AND ALARMS

- A. THE FOLLOWING POINTS SHALL BE MONITORED AND ALARMED AT THE MONITORING CONSOLE AND AS OTHERWISE SPECIFIED HEREINAFTER. THESE ARE IN ADDITION TO POINTS REQUIRED FOR OPERATIONAL CONTROL.
- B. POINT DESCRIPTIONS
- a. CURRENT SENSING RELAYS - PROVIDE FOR:
- 1) RTU-1 & 2 SUPPLY AIR FAN
  - 4) RTU-1 & 2 COMPRESSORS
  - 5) EXHAUST FANS
- COORDINATE REQUIREMENTS FOR ECM EQUIPMENT.
- b. HIGH/LOW TEMPERATURE ALARMS ON ALL DDC TEMPERATURE SENSORS WITH OFF-NORMAL MESSAGES.
- c. GENERATOR TROUBLE.
- d. FC-1 / CD-1
- e. FC-2 / CD-2
- C. WHEN INTERFACING WITH EQUIPMENT PROVIDING REMOTE ANALOG INPUT OR RECEIVING ANALOG OUTPUTS TO THE DDC SYSTEM OR WHEN MONITORING REQUIRES THE INSTALLATION OF EXTERNAL RELAYS AT THE EQUIPMENT BEING MONITORED, COORDINATE ALL REQUIREMENTS SUCH AS RANGE, SIGNAL CONDITION, GROUNDIN, WIRING AND INPUT IMPEDANCE WITH THE SUPPLIER OF THE EQUIPMENT BEING MONITORED.
- D. DIAL OUT ALARMS - DDC SYSTEM SHALL BE CAPABLE OF INITIATING DIAL OUT ALARM MESSAGE TO PAGERS, TELEPHONE OR INTERNET WHENEVER THE SYSTEM DETECTS AN ALARM. COORDINATE LIST OF DESIRED ALARMS AND INTERFACE WITH OWNERS NOTIFICATION EQUIPMENT WITH THE OWNER.



SEQUENCE OF OPERATION

THE GAS FIRED UNIT HEATER SHALL MODULATE TO MAINTAIN SPACE SETPOINT. UNIT SHALL BE LOCKED OUT WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 55°F.

1 GAS-FIRED UNIT HEATERS CONTROL DIAGRAM GUH-2

SEQUENCE OF OPERATION

OUTDOOR AIR DAMPER

THE OUTDOOR AIR DAMPER SHALL OPEN TO 100% WHEN EF-3 IS OPERATING.

DAMPER SHALL BE CLOSED WHEN EF-3 IS OFF.

THE INTAKE AIR TEMPERATURE SENSOR SHALL CONTROL THE GAS FIRED UNIT HEATER, GUH-1, BURNER FIRING RATE.

GAS FIRED UNIT HEATER

THE GAS FIRED UNIT HEATER SHALL NORMALLY MODULATE TO MAINTAIN SPACE SETPOINT. UNIT SHALL BE LOCKED OUT WHEN THE OUTSIDE AIR TEMPERATURE IS GREATER THAN 55°F.

IF THE UNIT IS OPERATING AND THE INTAKE AIR DAMPER OPENS AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN 55°F, THE UNIT SHALL REMAIN ON UNTIL THE INTAKE AIR DAMPER CLOSES, REGARDLESS IF THE TEMPERATURE SETPOINT IS SATISFIED.

IF THE INTAKE DAMPER OPENS AND THE UNIT HEATER IS OFF AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN 55°F, THE HEATER SHALL START AND REMAIN FIRING UNTIL THE INTAKE DAMPER CLOSES.

IF THE INTAKE DAMPER OPENS AND THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 55°F, THE UNIT HEATER SHALL REMAIN OFF.

MANUAL MOMENTARY WALL SWITCH

THE MANUAL MOMENTARY OVER-RIDE SWITCH SHALL COMMAND THE FAN TO 50% OF MAXIMUM AIRFLOW FOR 30 MINUTES (ADJ).

EF-3 OPERATION

EF-3 SHALL OPERATE CONTINUOUSLY.

EF-4 OPERATION

EF-4 SHALL BE NORMALLY OFF.

THE FAN SHALL START UPON THE DDC SYSTEM RECEIVING AN ALARM FROM THE CO/NO<sub>2</sub> MONITORING SYSTEM. ACTIVATION FROM THE NEDERMAN TRUCK START RECEIVERS, OR A LOCAL MANUAL, MOMENTARY, OVER-RIDE WALL PUSH BUTTON.

CO/NO<sub>2</sub> SENSOR CONTROL

THE APPARATUS BAY'S CO/NO<sub>2</sub> SHALL BE PROGRAMMED TO THE FOLLOWING ALARM LEVELS.

ALARM LEVELS:

- NO ALARM; CO (<34 PPM) AND NO<sub>2</sub> (<2.5 PPM)
- ALARM LEVEL 1: CO (35 - 50 PPM) OR NO<sub>2</sub> (2.5 - 2.8 PPM)
- ALARM LEVEL 2: CO (>50 PPM) OR NO<sub>2</sub> (>2.8 PPM)

FAN AIRFLOW:

- NO ALARM; OFF
- ALARM LEVEL 1: 50% OF MAXIMUM AIRFLOW
- ALARM LEVEL 2: MAXIMUM AIRFLOW

WHEN THE FAN IS INDEXED TO EITHER THE 50% OR MAXIMUM AIRFLOW, THE FAN SHALL RUN FOR A MINIMUM OF 30 MINUTES (ADJ.) AT THE RESPECTIVE AIRFLOW.

TRUCK START SIGNAL

UPON A SIGNAL FROM ANY OF THE FIVE (5) TRUCK START RECEIVERS, THE FAN SHALL RUN AT MAXIUM AIRFLOW FOR 5 MINUTES.

MANUAL MOMENTARY WALL SWITCH

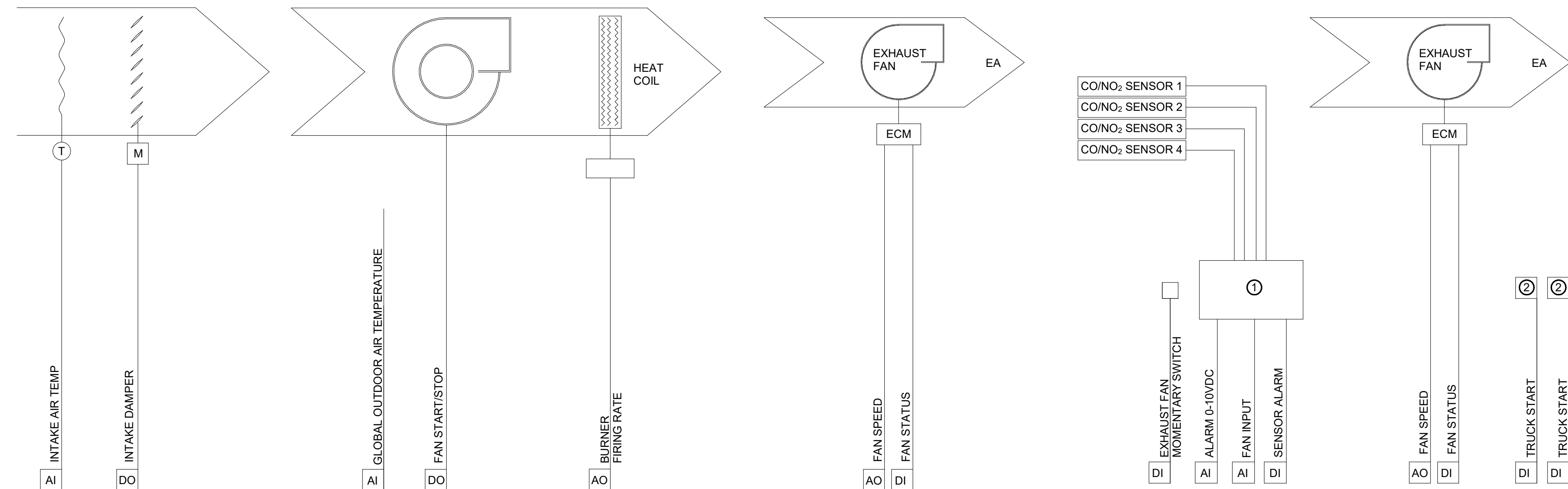
THE MANUAL MOMENTARY OVER-RIDE SWITCH SHALL COMMAND THE FAN TO 50% OF MAXIMUM AIRFLOW FOR 30 MINUTES (ADJ).

FAN SPEED CONTROL PRIORITY

THE CO/NO<sub>2</sub> SENSOR SHALL HAVE PRIORITY TO CHANGE THE FAN SPEED AT ANY TIME. IF THE MOMENTARY WALL SWITCH IS ACTIVATED TO RAISE THE FAN TO 50% AIRFLOW AND THE CO/NO<sub>2</sub> SENSOR ALARMS, THE FAN SHALL BE INDEXED TO RUN AT THE RESPECTIVE ALARM LEVEL AND RESET ITS RUN TIMER.

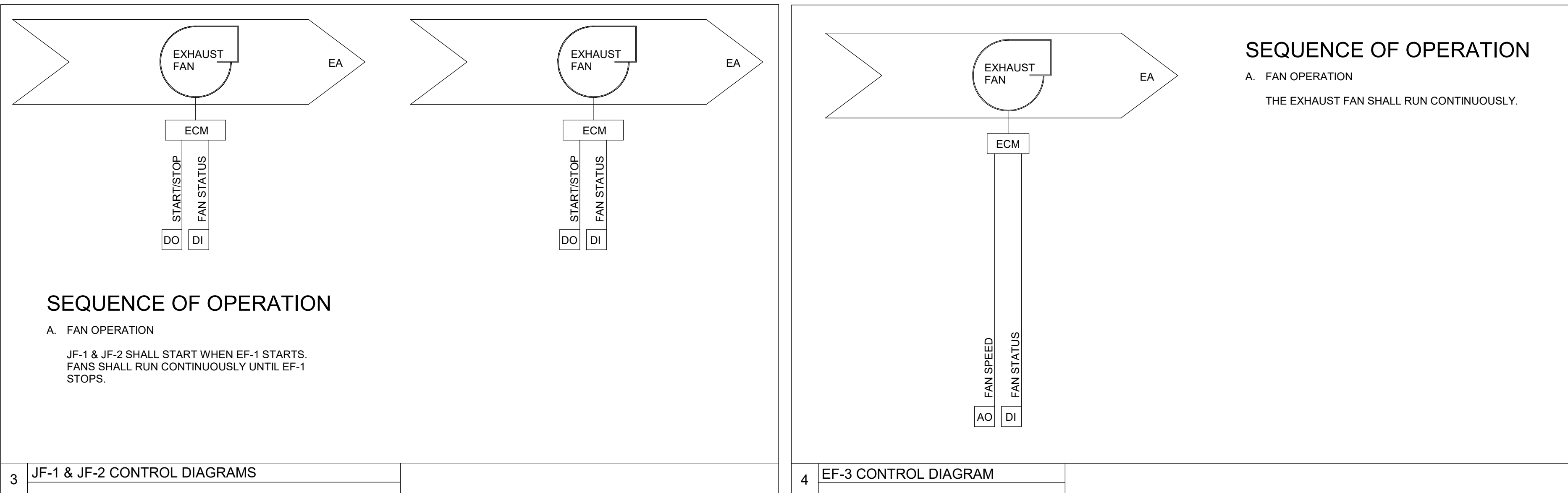
IF THE TRUCK START SIGNAL HAS ACTIVATED THE FAN AND A CO/NO<sub>2</sub> ALARM IS RECEIVED, THE FAN RUNTIME SHALL RESET TO 30 MINUTES.

THE MOMENTARY FAN SWITCH SHALL ONLY START THE FAN SPEED IF THERE IS NO ALARM LEVEL FROM THE CO/NO<sub>2</sub> SENSOR OR TRUCK SIGNAL, AND THE FAN IS OFF. THE MOMENTARY WALL SWITCH SHALL NOT OVERRIDE THE CO/NO<sub>2</sub> CONTROLLER OR TRUCK START.



- ① CO/NO<sub>2</sub> CONTROL PANEL BY T.C. SEE H1.2 FOR MOUNTING LOCATION AND REFER TO SPECIFICATIONS FOR EQUIPMENT INFORMATION
- ② NEDERMAN AUTO START RECEIVER - PART # 89115581 PROVIDED BY T.C.

2 EF-4 - APPARATUS BAY CONTROL DIAGRAM



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SEQUENCE OF OPERATION

RTU-2 SHALL OPERATE BASED ON A 7-DAY PROGRAMMABLE THERMOSTAT PROVIDED BY THE UNIT MANUFACTURER. PROGRAM TO LIMIT TEMPERATURE RANGE TO 68°F - 74°F.

PROVIDE A DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

PROVIDE BACNET MS/TP CONNECTION FROM THE RTU TO THE BUILDING DDC SYSTEM. PULL IN ALL UNIT ALARMS. PROVIDE OWNER WITH DIAL-OUT ALERT FOR ALARMS.

SEQUENCE OF OPERATION

RTU-2 SHALL OPERATE BASED ON A 7-DAY PROGRAMMABLE THERMOSTAT PROVIDED BY THE UNIT MANUFACTURER. PROGRAM TO LIMIT TEMPERATURE RANGE TO 68°F - 74°F.

PROVIDE A DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

PROVIDE BACNET MS/TP CONNECTION FROM THE RTU TO THE BUILDING DDC SYSTEM. PULL IN ALL UNIT ALARMS. PROVIDE OWNER WITH DIAL-OUT ALERT FOR ALARMS.

SEQUENCE OF OPERATION

FC-1 / CD-1 SHALL OPERATE 24/7/365 TO MAINTAIN SPACE TEMPERATURE SETPOINT. PROGRAM THERMOSTAT TEMPERATURE RANGE TO 68-74 DEG. F.

PROVIDE DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

1 RTU-1 CONTROLS

2 RTU-2 CONTROLS

3 FC-1 / CD-1 CONTROLS

SEQUENCE OF OPERATION

FC-2 / CD-2 SHALL OPERATE 24/7/365 TO MAINTAIN SPACE TEMPERATURE SETPOINT. PROGRAM THERMOSTAT TEMPERATURE RANGE TO 68-74 DEG. F.

PROVIDE DDC TEMPERATURE SENSOR AS INDICATED ON PLAN. IF TEMPERATURE RISES ABOVE 78°F (ADJ.) OR DROPS BELOW 64°F (ADJ.), SEND AN ALARM TO THE CONSOLE.

SEQUENCE OF OPERATION

THE DOMESTIC WATER BACKFLOW PREVENTER IS EQUIPPED WITH A DIGITAL CONTACT TO PROVIDE AN ALARM SIGNAL.

THE T.C. SHALL CONNECT THE DDC CONTROL SYSTEM TO THE BACKFLOW PREVENTER TO RECEIVE THIS ALARM SIGNAL AND PERFORM A DIAL OUT FEATURE TO ALERT DESIGNATED PERSONNEL.

NOTE: THE BUILDING IS EQUIPPED WITH DUAL BACKFLOW PREVENTERS. EACH BACKFLOW PREVENTER SHALL BE MONITORED BY THE DDC SYSTEM. REFER TO BACKFLOW PREVENTER INSTALLATION MANUAL FOR REQUIRED CONTROL COMPONENTS. BACKFLOW PREVENTER REQUIRES 24V POWER. THE T.C. SHALL PROVIDE THE REQUIRED POWER PER SPECIFICATION 23 0914.3.1.A & B.

4 FC-2 / CD-2 CONTROLS

5 DOMESTIC WATER BACKFLOW PREVENTER

SEQUENCE OF OPERATION

PUMP OPERATION

THE DOMESTIC HOT WATER RECIRCULATING PUMP SHALL BE STARTED AND STOPPED THROUGH THE DDC SYSTEM. PUMP SHALL OPERATE IN AN ENABLED OR DISABLED STATUS BASED ON BUILDING OCCUPANCY SCHEDULE.

THE BUILDING SHALL BE OCCUPIED 24/7/365

PUMP ENABLE

THE PUMP SHALL BE ENABLED DURING BUILDING OCCUPIED HOURS. WHEN ENABLED THE PUMP SHALL OPERATE BASED ON THE BUILDING RETURN WATER TEMPERATURE SETPOINT, 110 DEG. F. AS THE TEMPERATURE DROPS BELOW SETPOINT THE PUMP SHALL START AND SHALL OPERATE FOR A MINIMUM OF ONE HOUR. AFTER THE ONE HOUR MINIMUM RUN TIME IF THE RETURN WATER TEMPERATURE IS 110 DEG. F. OR GREATER THE PUMP SHALL STOP.

FROM BLDG.

TO HEATER

STARTER BY E.C.

RETURN WATER TEMP

PUMP STARTER/STOP

PUMP STATUS

NOTE: REFER TO PLUMBING DRAWING FOR INSTALLATION LOCATION OF PIPE MOUNTED TEMPERATURE

6 DOMESTIC HOT WATER RECIRCULATING PUMP CONTROL DIAGRAM

N.T.S.

APP Architecture

creative focused design

STATE OF OHIO

JEFFREY D. ZELINSKI

63822

REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822  
EXPIRATION DATE 12/31/2025

CITY OF DAYTON

DAYTON FIRE DEPARTMENT

STATION 16

4111 Kings Highway, Dayton, Ohio 45406

ISSUE

NO.	DATE	DESCRIPTION
08/01/2025	FOR CONSTRUCTION	
2	10/08/2025	ADDENDUM 2

DATE	08/01/2025
JOB NO.	4284.01
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CHECKED	JDZ
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TITLE	CONTROLS
SHEET NO.	H4.2



## VENTILATION GENERAL NOTES

1. PER OMC 403.2 EXCEPTION #2. CALCULATIONS ARE BASED ON ASHRAE 62.1 - 2019. THE TABLES ON THIS SHEET ARE THE ASHRAE 62.1 VENTILATION RATE PROCEDURE CALCULATIONS. THIS SPREAD SHEET IS PUBLISHED BY ASHRAE.

2. SPREAD SHEETS CALCULATE THE CRITICAL ZONE, UNCORRECTED OUTDOOR AIR FLOW, SYSTEM TOTAL VENTILATION EFFICIENCY, AND A FINAL OUTDOOR AIR INTAKE REQUIRED (V<sub>or</sub>).

## 3. CALCULATION SUMMARY

## RTU-1:

REQUIRED OUTDOOR AIR: 211 CFM  
TOTAL OUTDOOR AIR PROVIDED: 300 CFM

## RTU-2:

REQUIRED OUTDOOR AIR: 360 CFM  
TOTAL OUTDOOR AIR PROVIDED: 600 CFM

Building:		DAYTON FIRE STATION 16	
System Tag/Name:		RTU-1	
Operating Condition Description:		24/7	
Units (select from pull-down list)		IP	
Inputs for System		w/o diversity	
Floor area served by system		As sf	
Population of area served by system		Ps P	
Design primary supply fan airflow rate		Vpsd cfm	
OA req'd per unit area for system (Weighted average)		Ras cfm/sf	
OA req'd per person for system area (Weighted average)		Rps cfm/p	
Percent increase in Vbz over minimum required		D	
Inputs for Potentially Critical zones		w/ diversity	
Zone Name		Zone title turns purple italic for critical zone(s)	
Zone Tag			
Occupancy Category		Select from pull-down list:	
Floor Area of zone		Az sf	
Design population of zone		Pz P (default value listed; may be overridden)	
Design total supply to zone (primary plus local recirculated)		Vdzt cfm	
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?		Er Select from pull-down list or leave blank if N/A:	
Frac. of local recirc. air that is representative of system RA		Er	
Inputs for Operating Condition Analyzed			
Percent of total design airflow rate at conditioned analyzed		Ds %	
Air distribution type at conditioned analyzed		Select from pull-down list:	
Zone air distribution effectiveness at conditioned analyzed		Ez	
Primary air fraction of supply air at conditioned analyzed		Ep	
Results			
System Ventilation Efficiency		Ev	
Outdoor air intake required for system		Vot cfm	
Outdoor air per unit floor area		Vot/As cfm/sf	
Outdoor air per person served by system (including diversity)		Vot/Ps cfm/p	
Outdoor air as a % of design primary supply air		Ypd %	
Detailed Calculations			
Initial Calculations for the System as a whole			
System primary supply air flow at conditioned analyzed		Vps cfm	
Uncorrected OA intake flow req'd for system		Vou cfm	
Uncorrected OA req'd as a fraction of primary SA		Xs	
Initial Calculations for individual zones			
Area outdoor air rate		Ra cfm/sf	
People outdoor air rate		Rp cfm/p	
Total supply air to zone (at condition being analyzed)		Vdz cfm	
Primary airflow to zone (at condition being analyzed)		Vpz cfm	
Breathing zone outdoor airflow		Vbz cfm	
Zone outdoor airflow		Voz cfm	
Fraction of zone supply not directly recirc. from zone		Fa	
Fraction of zone supply from fully mixed primary air		Fb	
Fraction of zone OA not directly recirc. from zone		Fc	
OA fraction required in the supply air to the zone		Zd	
OA fraction required in the primary air to the zone		Zpz	
System Ventilation Efficiency			
Zone Ventilation Efficiency (App A Method)		Evz	
System Ventilation Efficiency (App A Method)		Ev	
System Ventilation Efficiency (Table 6.3 Method)		Ev	
Minimum outdoor air intake airflow			
Outdoor Air Intake Flow required to System		Vot cfm	
OA intake req'd as a fraction of primary SA		Y	
Outdoor Air Intake Flow required to System (Table 6.3 Method)		Vot cfm	
OA intake req'd as a fraction of primary SA (Table 6.3 Method)		Y	
OA Temp at which Min OA provides all cooling			
OAT below which OA Intake flow is @ minimum		Deg F	

VENTILATION NOTES:  
OMC REQUIRED VENTILATION: 211 CFM  
POSTIVE PRESSURIZATION: 89 CFM  
TOTAL OA PROVIDED: 300 CFM

Building:		DAYTON FIRE STATION 16	
System Tag/Name:		RTU-2	
Operating Condition Description:		24/7	
Units (select from pull-down list)		IP	
Inputs for System		w/o diversity	
Floor area served by system		As sf	
Population of area served by system		Ps P	
Design primary supply fan airflow rate		Vpsd cfm	
OA req'd per unit area for system (Weighted average)		Ras cfm/sf	
OA req'd per person for system area (Weighted average)		Rps cfm/p	
Percent increase in Vbz over minimum required		D	
Inputs for Potentially Critical zones		w/ diversity	
Zone Name		Zone title turns purple italic for critical zone(s)	
Zone Tag			
Occupancy Category		Select from pull-down list:	
Floor Area of zone		Az sf	
Design population of zone		Pz P (default value listed; may be overridden)	
Design total supply to zone (primary plus local recirculated)		Vdzt cfm	
Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan?		Er Select from pull-down list or leave blank if N/A:	
Frac. of local recirc. air that is representative of system RA		Er	
Inputs for Operating Condition Analyzed			
Percent of total design airflow rate at conditioned analyzed		Ds %	
Air distribution type at conditioned analyzed		Select from pull-down list:	
Zone air distribution effectiveness at conditioned analyzed		Ez	
Primary air fraction of supply air at conditioned analyzed		Ep	
Results			
System Ventilation Efficiency		Ev	
Outdoor air intake required for system		Vot cfm	
Outdoor air per unit floor area		Vot/As cfm/sf	
Outdoor air per person served by system (including diversity)		Vot/Ps cfm/p	
Outdoor air as a % of design primary supply air		Ypd %	
Detailed Calculations			
Initial Calculations for the System as a whole			
System primary supply air flow at conditioned analyzed		Vps cfm	
Uncorrected OA intake flow req'd for system		Vou cfm	
Uncorrected OA req'd as a fraction of primary SA		Xs	
Initial Calculations for individual zones			
Area outdoor air rate		Ra cfm/sf	
People outdoor air rate		Rp cfm/p	
Total supply air to zone (at condition being analyzed)		Vdz cfm	
Primary airflow to zone (at condition being analyzed)		Vpz cfm	
Breathing zone outdoor airflow		Vbz cfm	
Zone outdoor airflow		Voz cfm	
Fraction of zone supply not directly recirc. from zone		Fa	
Fraction of zone supply from fully mixed primary air		Fb	
Fraction of zone OA not directly recirc. from zone		Fc	
OA fraction required in the supply air to the zone		Zd	
OA fraction required in the primary air to the zone		Zpz	
System Ventilation Efficiency			
Zone Ventilation Efficiency (App A Method)		Evz	
System Ventilation Efficiency (App A Method)		Ev	
System Ventilation Efficiency (Table 6.3 Method)		Ev	
Minimum outdoor air intake airflow			
Outdoor Air Intake Flow required to System		Vot cfm	
OA intake req'd as a fraction of primary SA		Y	
Outdoor Air Intake Flow required to System (Table 6.3 Method)		Vot cfm	
OA intake req'd as a fraction of primary SA (Table 6.3 Method)		Y	
OA Temp at which Min OA provides all cooling			
OAT below which OA Intake flow is @ minimum		Deg F	

VENTILATION NOTES:  
OMC REQUIRED VENTILATION: 360 CFM

EXHAUST AIRFLOW: 500 CFM  
POSTIVE PRESSURIZATION: 100 CFM  
TOTAL OA PROVIDED: 600 CFM

## ISSUE

NO.	DATE	DESCRIPTION
08/01/2025		FOR CONSTRUCTION
2	10/08/2025	ADDENDUM 2

## E

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TITLE	VENTILATION

## SHEET NO.

H5.1



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ELECTRICAL SPECIFICATIONS

- Z. LABEL ALL NORMAL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH. EMERGENCY POWERED ITEMS SHALL BE MARKED THE SAME WAY BUT SHALL BE WITH RED BACKGROUND AND WHITE LETTERS.
- AA. LABEL ALL NORMAL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED. EMERGENCY POWERED ITEMS SHALL BE MARKED THE SAME WAY BUT SHALL BE WITH RED BACKGROUND AND WHITE LETTERS.
- AB. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPE/SIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.
- AC. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE 'RK1' FUSES.
- AD. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL, LEVITON, COOPER CONTROLS OR SENSOR SWITCH. CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS.
- AE. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN THE DEDICATED ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS; FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION.
- AF. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.
- AG. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.
- AH. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.

ELECTRICAL INDEX OF DRAWINGS

SHEET	DRAWING TITLE
E0.1	LEGEND
E0.2	SCHEDULES
E0.3	PANEL SCHEDULES
E0.4	DETAILS
E1.0	BASEMENT DEMO PLAN
E1.1	FIRST FLOOR DEMO PLAN
E2.0	NEW BASEMENT LIGHTING PLAN
E2.1	NEW FIRST FLOOR LIGHTING PLAN
E3.0	NEW BASEMENT POWER AND SYSTEMS PLAN
E3.1	NEW FIRST FLOOR POWER AND SYSTEMS PLAN
E3.2	NEW ROOF POWER AND SYSTEMS PLAN

ELECTRICAL SPECIFICATIONS

- A. ALL ELECTRICAL WIRING, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE 2023 OHIO BUILDING CODE, 2023 NATIONAL ELECTRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND COMMERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND DISCONNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR G.E.
- C. SUBMIT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR THE FOLLOWING EQUIPMENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT BREAKER(S) AND WIRING DEVICES.
- D. ALL POWER AND SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.
- E. STAGGER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN ON OPPOSITE SIDES OF STUD WALL PARTITIONS TO PREVENT SOUND TRANSMISSION BETWEEN ROOMS.
- F. DRAWINGS ARE SCHEMATIC IN NATURE TO REPRESENT REQUIRED EQUIPMENT/DEVICES AND ASSOCIATED POWER/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR DEVICE LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL LOCATIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE ALARM AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK, FIXED FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING OBSTRUCTIONS. RECEPTACLES ASSOCIATED WITH/ADJACENT TO TECHNOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME MOUNTING HEIGHT AND WITHIN 8" HORIZONTALLY UNLESS SPECIFICALLY NOTED OTHERWISE.
- G. THE ARCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR ADJUSTMENT IN LOCATIONS OF SYSTEM RUNS AND COMPONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS DESIRABLE IN THE INTEREST OF CONCEALING WORK OR PRESENTING A BETTER APPEARANCE WHERE EXPOSED. ANY SUCH CHANGES SHALL BE ANTICIPATED AND REQUESTED SUFFICIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, OR UNDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE WITH ALL OTHER TRADES AND REPORT IMMEDIATELY ANY DIFFICULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM RUNS AND COMPONENTS ARE SO PLACED AS TO CAUSE OR CONTRIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE EXPENSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ARCHITECT'S DECISION SHALL BE FINAL IN REGARD TO ARRANGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, WIREWAYS ETC., WHERE CONFLICT ARISES.
- H. ALL WIRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THINWALL STRANDED COPPER CONDUCTORS WITH INSULATION SUITABLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC RADIANT HEATERS SHALL BE LISTED FOR THE APPLICATION.
- I. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND SEPARATE GREEN COLORED INSULATED COPPER GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. NEUTRAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE AND FOR 277 VOLT CIRCUITS SHALL BE GRAY COLOR.
- J. ALL CONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE CONDUIT. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND BRANCH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR FINAL CONNECTION TO INDOOR LIGHT FIXTURES. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL CONNECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.
- K. EMT CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR SETSCREW TYPE.
- L. ALL CONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED TYPE WITH THREADED STEEL FITTINGS. UTILIZE COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR FIXTURE AND OUTLET BOXES.
- M. BRANCH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE WALLS ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE METALLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY SUPPORTED.
- N. ALL EMPTY CONDUITS SHALL HAVE A NYLON PULLSTRING INSTALLED PER SPECIFICATIONS.
- O. WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR, WITH BRUSHED STAINLESS STEEL COVERPLATES, HUBBELL, P&S, COOPER OR LEVITON. PROVIDE TAMPER-RESISTANT RECEPTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.
- P. ALL CONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY SUPPORTED PER NEC AND NEATLY INSTALLED.
- Q. IDENTIFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE COVERPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON CLEAR ADHESIVE BACKGROUND.
- R. PROVIDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD AND ROOM DESCRIPTION WITH ROOM NUMBER AND TYPE. UPDATE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED DIRECTORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.
- S. ALL SPARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.
- T. THE TOTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT BREAKER FOR THAT CIRCUIT.
- U. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE BUILDING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.
- V. THE E.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS THRU RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE LISTED AND APPROVED FOR THE ASSEMBLY AND PENETRATION UTILIZED.
- W. IDENTIFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY NEATLY PRINTING PANEL AND CIRCUIT NUMBERS ON BOX COVERS WITH INDELIBLE MARKER.
- X. NEATLY LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED CONDUIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.
- Y. NEATLY LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH ACCESSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL PULL BOXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.

ELECTRICAL LEGEND

	OCCUPANCY SENSOR, CEILING MOUNTED.
	OCCUPANCY SENSOR CONTROL RELAY.
	DISCONNECT SWITCH (FUSIBLE)
	MOTOR STARTER OR VFD.
	COMBINATION MOTOR STARTER OR VFD AND DISCONNECT SWITCH.
	ELECTRIC MOTOR.
	UNIT HEATER.
	FAN COIL UNIT.
	CIRCUIT BREAKER PANEL, FLUSH MOUNTED.
	CIRCUIT BREAKER PANEL, SURFACE MOUNTED.
	POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.
	ELECTRIC BASEBOARD HEATER.
	NEW DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
	EXISTING DATA OUTLET (18" M.H. UNLESS OTHERWISE INDICATED M.H.). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.
	WIRELESS WIFI ACCESS POINT; CEILING MOUNTED.
	FIRE ALARM HORN & SIGNAL LIGHT (80" A.F.F.). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
	FIRE ALARM SIGNALING LIGHT (80" A.F.F.). # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.
	FIRE ALARM SENDING STATION (46" M.H.).
	CEILING MOUNTED SMOKE DETECTOR.
	CEILING MOUNTED HEAT DETECTOR.
	DUCT MOUNTED SMOKE DETECTOR (S/SUPPLY, R/RETURN).
	ELECTRO-MAGNETIC DOOR HOLDER.
	WATER FLOW SWITCH.
	FIRE ALARM SUPERVISED VALVE.
	TELEVISION MONITOR RECEPTACLE AND CABLE OUTLET BOX ASSEMBLY REFER TO TV WALL BOX DETAIL - T1
	DOOR ACCESS CONTROL SYSTEM CARD READER - 46" M.H.
	CCTV CAMERA. ROUGH-IN BOX, 1" C. STUB.
	ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).
	PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).
	PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).
	4" DIAMETER BELL (90" M.H.).
	FLUSH MOUNTED CEILING SPEAKER.
	TRUMPET TYPE SPEAKER (96" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.
	CEILING FAN FURNISHED AND INSTALLED BY H.C.; WIRED BY E.C.

ELECTRICAL LEGEND

	ELECTRICAL CONNECTION REQUIRED.
	EXIT LIGHTING FIXTURE. ARROWS AS INDICATED.
	LIGHTING FIXTURE: CAPITAL LETTER DENOTES FIXTURES TYPE. LOWER CASE LETTER DENOTES SWITCHING ARRANGEMENT.
	LIGHTING FIXTURE ON NIGHT LIGHT OR EMERGENCY CIRCUIT.
	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT; CAPITAL LETTER DENOTES PANEL; NUMBER DENOTES CIRCUIT.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING
	WIRE & CONDUIT UNDERGROUND
	JUNCTION BOX.
	DASHED SYMBOL INDICATES THAT PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
	EXISTING OUTLET OR DEVICE TO REMAIN, MAINTAIN EXISTING CIRCUITRY.
	20A-125V SINGLE RECEPTACLE, NEMA 5-20R (18" M.H.).
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R (18" M.H.).
	20A-125V DUPLEX RECEPTACLE WITH INTEGRAL USB CHARGING PORTS (1 USB 'A'; 1 USB 'C' PORT), NEMA 5-20R (18" M.H.), USB TYPE A-C CHARGING PORTS WITH MINIMUM 5 AMPS COMBINED CHARGING POWER.
	15A-125V DUPLEX RECEPTACLE WITH INTEGRAL NIGHT LIGHT ACCESSORY. DEVICE SHALL HAVE LED NIGHT LIGHT IN FACE OF DEVICE WITH PHOTO-SENSOR CONTROL, NEMA 5-20R (18" M.H.).
	SPECIAL PURPOSE RECEPTACLE. REFER TO NOTE ON PLAN
	20A-125V DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, (18" M.H.) TWO-GANG ASSEMBLY. D = DOUBLE DUPLEX.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, (46" M.H.) UNLESS OTHERWISE INDICATED D = DOUBLE DUPLEX.
	20A-125V DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.).
	20A-125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5-20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" M.H.), WITH HUBBELL #WPP26M CAST ALUMINUM "WHILE-IN-USE" COVER.
	20A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-20R, (18" M.H.).
	30A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-30R, (18" M.H.).
	50A-125V/250V-1PH-4W SINGLE RECEPTACLE, NEMA 14-50R (18" M.H.)
	SINGLE POLE WALL SWITCH (46" M.H.)
	TWO POLE WALL SWITCH (46" M.H.).
	THREE-WAY WALL SWITCH (46" M.H.).
	FOUR-WAY WALL SWITCH (46" M.H.).
	LIGHTING OCCUPANCY SENSOR WALL SWITCH (46" M.H.)
	LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
	LIGHTING 0-10V LED DIMMER SWITCH WITH PRESET SLIDE CONTROL AND 3-WAY POWER ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED.
	LIGHTING VACANCY SENSOR WALL SWITCH WITH MANUAL 'ON' PUSHBUTTON AND DUAL TECHNOLOGY MOTION SENSOR TO AUTOMATICALLY TURN 'OFF' WHEN ROOM UNOCCUPIED (46" M.H.).
	0-10V LED COMBINATION VACANCY SENSOR AND DIMMER SWITCH WITH PRESET SLIDE CONTROL AND SEPARATE ON-OFF 'DECORATOR' STYLE SWITCH (46" M.H.) UNLESS OTHERWISE INDICATED, RATED MIN. 800 WATTS.

GENERAL LEGEND

EC	ELECTRICAL CONTRACTOR.
FC	FIRE PROTECTION CONTRACTOR.
GC	GENERAL CONTRACTOR.
HC	HVAC CONTRACTOR.
PC	PLUMBING CONTRACTOR.
TC	TEMPERATURE CONTROLS CONTRACTOR.
NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.
(E)	EXISTING.
ES	EQUIPMENT SUPPLIER.
EM	EMERGENCY.
MH	MOUNTING HEIGHT.
S	SURFACE MOUNTED.
WP	WEATHER PROOF.
	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETAIL ON WHICH IS SHOWN.
	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.
	ROOM NUMBER.
	DETAIL SYMBOL. DETAIL "B" SHOWN ON SHEET E2.
	SECTION SYMBOL. SECTION "A" DESIGNATION, SHOWN ON SHEET E1.
	CONNECTION, NEW TO EXISTING.
	UP TO SYMBOL. UP TO "FD1", SHOWN ON FLOOR ABOVE.
	1 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS
	2 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS
	3 HOUR FIRE PROTECTION. SEE SPECIFICATION FOR PENETRATION DETAILS
	ITEM TO BE REMOVED.
	EXISTING TO REMAIN.
	NEW ITEM.

GENERAL NOTES

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION.
- B. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING.
- C. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL.
- D. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT.
- E. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY.
- F. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED.
- G. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- H. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK.
- I. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC.
- J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK.
- K. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT.



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SUSPENDED OVERHEAD CIRCULATION FANS																									
FAN NUMBER	CIRCUIT NUMBER	NAMEPLATE	FAN CHARACTERISTICS					LOCATION	DISCONNECT MEANS				CONTROL				FEEDER								
			HP (KVA OR FLA)	120V-1PH	208V-3PH	208V-1PH	480V-1PH		480V-3PH	TYPE	LOCATION	NEAR MOTOR	CONTROLLER	SEE NOTES	FURNISHED BY	FAN CONTROL PANEL	INDIVIDUAL SPEED CONT. / OFF	GROUP SPEED CONTROLLER / OFF	KEEP SPACE FOR FUTURE	SEE NOTES	NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE	SEE NOTE
CF1		CIRCULATION FAN 1	0.1 KVA	●				DORM ROOMS	●							●				2		12	12	1	

- Notes:
- 36" DIAMETER (CEILING HUGGER) CONTEMPORARY STYLE FAN WHITE FINISH.

### LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	LUMINAIRE				FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO.	OTHER ACCEPTABLE MANUFACTURES	DIFFUSING MEDIA	TRIM COLOR				S - SURFACE. R - RECESSED. SM - STEM MTD. WM - WALL MTD. C - CHAIN MTD. UC - UNDER CAB. CS - CLG. SURF.	MOUNTED			SIZE			SEE NOTES	
	LED	TYPE		WATTS/ FIXTURE					LUMENS/ COLOR TEMP	WHITE	BLACK	ALUMINUM		BRONZE	STANDARD	SEE NOTES	WIDTH	LENGTH	DEPTH		DIAMETER
B1	•			30	3600 LUMENS/ 4000K	120	LITHONIA# CPX 2X2 AL07 SWW M4	COLUMBIA, DAYBRITE	MATTE WHITE LENS	•					R	24	24	2			
C1	•			40	5000 LUMENS/ 4000K	120	LITHONIA# CLX L48 5000LUM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•					WM/S/SM	3	48	3			
C2	•			80	10000 LUMENS/ 4000K	120	LITHONIA# CLX L96 10000LUM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•						3	96	3			
D1	•			30	2500 LUMENS/ 4000K	120	FINELITE# S17-LED-ACF-PF-4"-H-840-120V-SC	PRUDENTIAL, AEL	ANGLED WHITE PERF DIFFUSER	•					WM (6'-0" A.F.F)	5	48	4			
D2	•			10	1300 LUMENS/ 3000K	120	LITHONIA# FMV/SSL-24IN-MVOLT-30K-90CRI-BN-M4	COLUMBIA, DAYBRITE	SQUARE WHITE LENS	•					WM (7'-0" A.F.F)	6	24	4			
F1	•			13	1100 LUMENS/ 3000K	120	WF6 REG SWW5 90CRI MW M6	GREEN CREATIVE, LIGHTOLIER	FLAT WHITE LENS	•					R			1.5	6	1	
F2	•			13	1100 LUMENS/ 4000K	120	WF6 REG SWW5 90CRI MW M6	GREEN CREATIVE, LIGHTOLIER	REGRESSED BAFFLE LED	•					R			1.5	6		
L1	•			20	4000K	120	ACOLYTE RB 90 AC12065 4.040	APPROVED EQUAL	TAPE LIGHT	•					COVE	.5	60	.5			
UC1	•			10	500 LUMENS/ 4000K	120	LITHONIA# UPLD-18IN-30K-90CRI-SWR-WH	CONTECH, TRACELITE	MATTE WHITE LENS	•				2	UC (OF SHELF)	18				2	
X1	•			5		120	LITHONIA# LHQM-LED-R-HO-M6	COMPASS, CHLORIDE	LED EMERGENCY/EXIT RED LETTERS ON WHITE W/EM...	•					WM						
X2	•			5		120	LITHONIA# LHQM-LED-R-HO-M6	COMPASS, CHLORIDE	LED EMERGENCY/EXIT RED LETTERS ON WHITE W/EM...	•					CLG						
REM	•					120	LITHONIA# ERE-GY-T-RD-WP	COMPASS, CHLORIDE	LED REMOTE LAMP HEADS - 2 HEAD - ROUND			•			WM OR CLG SURFACE TO CANOPY				4		
EM	•					120	LITHONIA# EU2C-HO	COMPASS, CHLORIDE	EMERGENCY LITE	•					WM - 76"						

- NOTES:
- SWITCHABLE COLOR TEMPERATURE.
  - INTEGRAL ROCKER SWITCH (HARD WIRED CONNECTION).

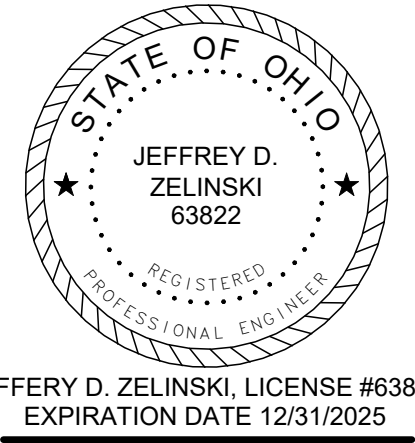
### MOTORS, STARTERS, DISCONNECTS & CONTROLS

MOTOR										STARTERS					DISCONNECT MEANS					CONTROL			FEEDER													
MOTOR NUMBER	CIRCUIT NUMBER	NAMEPLATE	CHARACTERISTICS				LOCATION	NEMA SIZE	TYPE			LOCATION		FURNISHED BY	TYPE			LOCATION		FURNISHED BY	INTERLOCK W/ DAMPER BY E.C.	MANUAL AT STARTER	INTEGRAL W/ EQUIP.	BY H.C.	SEE NOTE	NO. OF CONDUCTORS	WIRE SIZE	GRD. SIZE	CONDUIT SIZE	SEE NOTE						
			HP (KVA OR FLA)	120V-1PH	208V-3PH	208V-1PH			480V-1PH	480V-3PH	MANUAL	MAGNETIC	BUILT-IN MOTOR OL		VFD	ECM*	NEAR MOTOR	MOTOR CONT. CNTR	EQUIP. CONT. PANEL												ROOM NUMBER	SEE NOTE	DISC. SWITCH	MANUAL STARTER	RECEPTACLE	BREAKER
RTU-1		ROOFTOP UNIT 1	34 MCA / 50 MOCP		•												•						HC							3	8	10	.75	1		
RTU-2		ROOFTOP UNIT 2	51 MCA / 70 MOCP		•												•						HC							3	6	10	.1	2		
CD-1		CONDENSING UNIT 1	11.4 MCA / 15 MOCP		•												•						EC							2	12	12	.5			
FC-1		FAN COIL 1	5.8 MCA / 15 MOCP		•												•						EC							2	12	12	.5			
CD-2		CONDENSING UNIT 2	11.4 MCA / 15 MOCP		•												•						EC							2	12	12	.5			
FC-2		FAN COIL 2	5.8 MCA / 15 MOCP		•												•						EC							2	12	12	.5			
EF-1		EXHAUST FAN 1	1 HP		•								•			HC	•						HC	•						3	12	12	.5			
EF-2		EXHAUST FAN 2	1/6 HP		•								•			HC	•						HC	•						2	12	12	.5			
EF-3		EXHAUST FAN 3	1/6 HP		•								•			HC	•						HC	•						2	12	12	.5			
JF-1		JET FAN 1	12.2 MCA / 15 MOCP		•								•			HC	•						HC							2	12	12	.5			
JF-2		JET FAN 2	12.2 MCA / 15 MOCP		•								•			HC	•						HC							2	12	12	.5			
FT-1		HTR FIN TUBE 1	0.467 KW		•																									•	2	12	12	.5	3	
FT-2		HTR FIN TUBE 2	2.5 KW			•																									•	3	12	12	.5	3
FT-3		HTR FIN TUBE 3	1.05 KW			•																									•	3	12	12	.5	3
GUH-1		GAS UNIT HEATER 1	6.75 A		•												•						HC							2	12	12	.5			
GUH-2		GAS UNIT HEATER 2	6.75 A		•												•						HC							2	12	12	.5			
WH1		WATER HEATER	1 A		•							•				EC							EC							•	2	12	12	.5		
RCP1		REG RC PUMP	1 A		•							•				EC							EC							•	2	12	12	.5		

- \* REFER TO ECM CONTROL DIAGRAM(S) ON HVAC DRAWINGS, WHEN NOTED, FOR INTERLOCK WIRING AND AUX POWER REQUIREMENTS.
- NOTES:
- PROVIDE 60A FEED TO FUSED DISCONNECT AT UNIT. FUSE PER MANUFACTURER RECOMMENDATION.
  - PROVIDE 100A FEED TO FUSED DISCONNECT AT UNIT. FUSE PER MANUFACTURER RECOMMENDATION.
  - PROVIDE LINE VOLTAGE THERMOSTAT (120-240V) COMPATIBLE WITH BASEBOARD HEATERS (WITH OFF FEATURE) EQUAL TO HONEYWELL #CT410 B SERIES. COORDINATE THERMOSTAT LOCATION WITH H.C.

NAUMAN & ZELINSKI LLC.  
204 S. Ludlow Street Suite 400 Dayton, Ohio 45402  
Phone (937) 233-3821

App Architecture  
creative focused design



CITY OF DAYTON  
DAYTON FIRE DEPARTMENT  
STATION 16

4111 Kings Highway, Dayton, Ohio, 45406

ISSUE		
NO.	DATE	DESCRIPTION

08/01/2025 FOR CONSTRUCTION

DATE	05/29/25
JOB NO.	4284.01
DRAWN	AP
CHECKED	TR

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TITLE  
SCHEDULES

SHEET NO.

E0.2



Branch Panel: A					Construction: New					System: Normal Power					
LOCATION: SUPPLY FROM: MDP					MOUNTING: Surface					A.I.C RATING					
VOLTAGE: 120/208 Wye-3-4					ENCLOSURE: Type 1					MAINS TYPE: M.L.O.					
					MCB RATING: 225 A					MAINS RATING: 200 A					
CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	EF-1	20 A	3		333 VA	0 VA						3	60 A	East A/C	2
3	--	--	--				333 VA	0 VA				--	--	--	4
5	--	--	--						333 VA	0 VA		--	--	--	6
7	Roof A/C	60 A	3		0 VA	0 VA						3	20 A	Ex Fan Ctrl	8
9	--	--	--				0 VA	0 VA				--	--	--	10
11	--	--	--						0 VA	0 VA		--	--	--	12
13	Gen Chgr/Htr	30 A	2		0 VA	0 VA						1	15 A	Fire Alm Pnl	14
15	--	--	--				0 VA	1100 VA				1	20 A	EF-2	16
17	JF-1	20 A	2						550 VA	1000 VA		1	20 A	EF-3	18
19	--	--	--		550 VA	0 VA						3	30 A	Garage Doors	20
21	JF-2	20 A	2				550 VA	0 VA				--	--	--	22
23	--	--	--						550 VA	0 VA		--	--	--	24
25	Panel Rec	20 A	1		360 VA	1100 VA						1	20 A	GUH-1	26
27	Roof Rec	20 A	1				360 VA	1100 VA				1	20 A	GUH-2	28
29	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	30
31	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	32
33	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	34
35	RTU-1	60 A	3						333 VA	0 VA		1	20 A	Spare	36
37	--	--	--		333 VA	333 VA						3	60 A	RTU-2	38
39	--	--	--				333 VA	333 VA				--	--	--	40
41	CO/NO2 SYS	20 A	1						0 VA	333 VA		--	--	--	42
Total Load:					3010 VA		4110 VA		3100 VA						
NOTES:															
1: PROVIDE GFCI BREAKER															
Load Classification		Connected Load		Demand Factor		Estimated...		Panel Totals							
Motor		5000 VA		105.00%		5250 VA									
Other		0 VA		0.00%		0 VA		Total Conn. Load: 10220 VA							
Power		4500 VA		100.00%		4500 VA		Total Est. Demand: 10470 VA							
Receptacles		720 VA		100.00%		720 VA		Total Conn. Current: 28 A							
								Total Est. Demand Current: 29 A							

Branch Panel: D					Construction: Replace Interior					System: Normal Power					
LOCATION: STAIRS 124					MOUNTING: Flush					A.I.C RATING					
SUPPLY FROM: MDP					ENCLOSURE: Type 1					MAINS TYPE: M.L.O					
VOLTAGE: 120/208 Wye-3-4					MCB RATING: 225 A					MAINS RATING: 200 A					
CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	Appr	20 A	1		0 VA	0 VA						1	20 A	Appr	2
3	Appr	20 A	1				0 VA	0 VA				1	20 A	Appr	4
5	Appr	20 A	1						0 VA	0 VA		1	20 A	Appr	6
7	Appr	20 A	1		0 VA	0 VA						1	20 A	Appr	8
9	Appr	20 A	1				0 VA	0 VA				1	20 A	Appr	10
11	Dorm Lts	20 A	1						0 VA	0 VA		1	20 A	Dorm Lts	12
13	Tlt Lts	20 A	1		0 VA	0 VA						1	20 A	Lounge Lts	14
15	Lounge Rec	20 A	1				0 VA	0 VA				1	20 A	Kitchen Lts	16
17	Captain Lts	20 A	1						0 VA	0 VA		1	20 A	Appr Rec	18
19	Dorm Rec	20 A	1	1	0 VA	0 VA						1	20 A	Appr Rec	20
21	Kitchen Rec	20 A	1				0 VA	0 VA				1	20 A	Captain Rec	22
23	Disp Rm Rec	20 A	1						0 VA	0 VA		1	20 A	Disp Rm Rec	24
25	Stair Lts	20 A	1		0 VA	0 VA						1	20 A	Night Lts	26
27	Unknown	20 A	1				0 VA	0 VA				1	20 A	CAD Day Rm	28
29	Unknown	20 A	1						0 VA	0 VA		1	20 A	RR Lts	30
31	Unknown	20 A	1		0 VA	0 VA						1	20 A	RR Rec	32
33	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	34
35	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	36
37	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	38
39	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	40
41	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	42
Total Load:					0 VA		0 VA		0 VA						
NOTES:															
1: AFCI BREAKER															
Load Classification		Connected Load		Demand Factor		Estimated...		Panel Totals							
								Total Conn. Load: 0 VA							
								Total Est. Demand: 0 VA							
								Total Conn. Current: 0 A							
								Total Est. Demand Current: 0 A							

Branch Panel: B					Construction: New				System: Normal Power						
LOCATION: SUPPLY FROM: MDP					MOUNTING: Surface				A.I.C RATING						
VOLTAGE: 120/208 Wye-3-4					ENCLOSURE: Type 1				MAINS TYPE: M.L.O.						
					MCB RATING: 225 A				MAINS RATING: 200 A						
CKT	Description	Trip	Poles	Note	A		B		C		Note	Poles	Trip	Description	CKT
1	Water Htr	20 A	1		0 VA	0 VA					1	20 A	Exterior Lts	2	
3	Boiler	20 A	1				0 VA	0 VA				1	20 A	Unit Htr	4
5	Batt Charger	30 A	2						0 VA	0 VA		1	20 A	Unknown	6
7	--	--	--		0 VA	0 VA						1	20 A	Boiler	8
9	Rm 2-3 Rec	20 A	1				0 VA	0 VA				1	20 A	Sp Pp Rec	10
11	CAD	20 A	1						0 VA	0 VA		1	20 A	Sp Pp Rec	12
13	Dorm Cor Lts	20 A	1		90 VA	439 VA						1	20 A	Dorm Lts	14
15	C-02 Lts	20 A	1				699 VA	565 VA				1	20 A	C-03 Lts	16
17	Dining Lts	20 A	1						270 VA	1000 VA	1	1	20 A	RM101 FT-1	18
19	TLT102 FT-1	20 A	1	1	1000 VA	1000 VA					1	1	20 A	TLT123 FT-1	20
21	Dorm122 FT-1	20 A	1				1000 VA	180 VA				1	20 A	Kitchen Rec	22
23	Kitchen Rec	20 A	1						180 VA	360 VA		1	20 A	Kitchen Rec	24
25	Kitchen Rec	20 A	1		360 VA	180 VA						1	20 A	Dining Fridge	26
27	Dining Fridge	20 A	1				180 VA	180 VA				1	20 A	Dining Fridge	28
29	Day Rm FT-2	20 A	2						500 VA	500 VA	2	20 A	Day Rm FT-2	30	
31	--	--	--		500 VA	500 VA						1	20 A	Spare	32
33	Dayroom Ystr	20 A	1				1000 VA	0 VA				1	20 A	Spare	34
35	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	36
37	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	38
39	Space	--	--				--	--				1	--	Space	40
41	Space	--	--				--	--	--	--		1	--	Space	42
Total Load:					3084 VA		3602 VA		2585 VA						
NOTES:															
1: PROVIDE GFCI BREAKER															
Load Classification		Connected Load		Demand Factor		Estimated...		Panel Totals							
Lighting		1787 VA		125.00%		2233 VA									
Power		7000 VA		100.00%		7000 VA		Total Conn. Load: 10338 VA							
Receptacles		1620 VA		100.00%		1620 VA		Total Est. Demand: 10771 VA							
								Total Conn. Current: 29 A							
								Total Est. Demand Current: 30 A							

Branch Panel: E					Construction: New				System: Normal Power					
LOCATION: TOG STORAGE 007					MOUNTING: Surface				A.I.C RATING					
SUPPLY FROM: MDP					ENCLOSURE: Type 1				MAINS TYPE: M.L.O.					
VOLTAGE: 120/208 Wye-3-4					MCB RATING: 225 A				MAINS RATING: 100 A					
CKT	Description	Trip	Poles	Note	A		B		C	Note	Poles	Trip	Description	CKT
1	FC-2	15 A	2		550 VA	990 VA					1	20 A	TOG Rec	2
3	--	--	--				550 VA	1572 VA			1	20 A	TOG Rec	4
5	Smp Pmp Rec	20 A	1	1					180 VA	2078 VA	1	20 A	TOG Rec	6
7	Mech006 Rec	20 A	1		180 VA	1620 VA					1	20 A	Dorm Rec	8
9	Dorm Rec	20 A	1				1620 VA	1620 VA			1	20 A	Multi Rm Rec	10
11	Rm111 Washer	20 A	1						180 VA	2496 VA	2	30 A	Rm111 Dryer	12
13	Spare	20 A	1		0 VA	3496 VA					1	20 A	Spare	14
15	Spare	20 A	1				0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1						0 VA	0 VA	1	20 A	Spare	18
19	Spare	15 A	2		0 VA	0 VA					1	20 A	Spare	20
21	--	--	--				0 VA	0 VA			2	20 A	Spare	22
23	Spare	30 A	2						0 VA	0 VA	--	--	--	24
25	--	--	--		0 VA	--					1	--	Space	26
27	Space	--	1				--	--			1	--	Space	28
29	Space	--	1						--	--	1	--	Space	30
31	Space	--	1		--	--					1	--	Space	32
33	Space	--	1				--	--			1	--	Space	34
35	Space	--	1						--	--	1	--	Space	36
37	Space	--	1		--	--					1	--	Space	38
39	Space	--	1				--	--			1	--	Space	40
41	Space	--	1						--	--	1	--	Space	42
Total Load:					4546 VA		4425 VA		3079 VA					
NOTES: 1. AFCI BREAKER 2. GFCI BREAKER														
Load Classification					Connected Load	Demand Factor	Estimated...	Panel Totals						
Motor					1000 VA	125.00%	1250 VA							
Power					4591 VA	100.00%	4591 VA	Total Conn. Load: 12878 VA						
Receptacles					10932 VA	95.74%	10466 VA	Total Est. Demand: 12676 VA						
								Total Conn. Current: 36 A						
								Total Est. Demand Current: 35 A						







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A

B

C

D

E

F

1

2

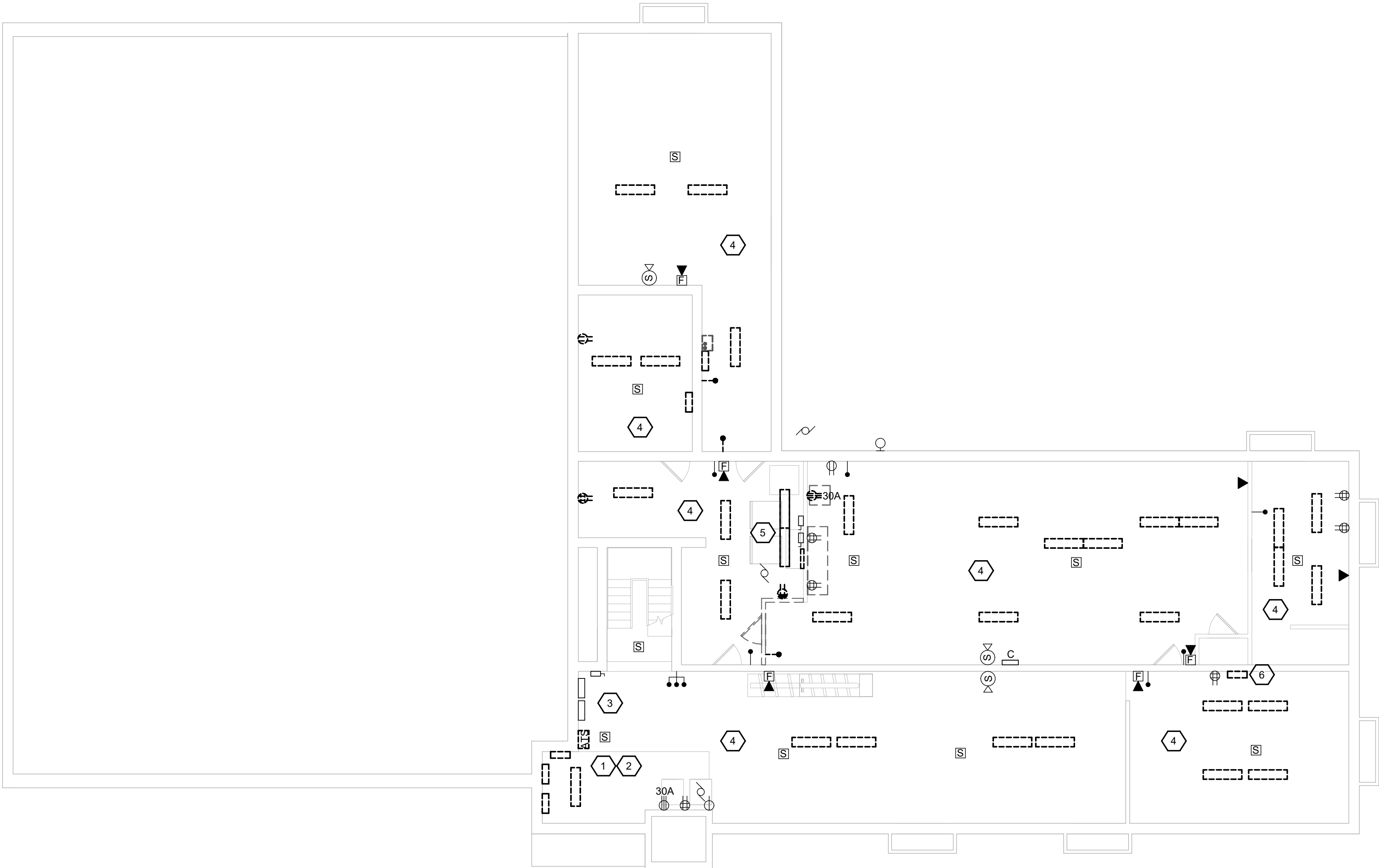
3

4

5

6

7



BASEMENT DEMO PLAN  
SCALE: 1/8" = 1'-0"



SCALE: 1/8"=1'-0"

NAUMAN & ZELINSKI LLC.  
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Phone: (937) 233-3821

### DEMOLITION NOTES

1. RETAIN EXISTING STANDBY GENERATOR AND ACCESSORY CIRCUITS, FEEDER, ETC.
2. REMOVE EXISTING MAIN SERVICE PANEL, ATS AND PANELBOARDS FOR REPLACEMENT WITH NEW SERVICE ENTRANCE ATS AND DISTRIBUTION PANEL. MAINTAIN EXISTING BRANCH CIRCUITRY TO REMAIN.
3. EXISTING FIRE ALARM PANEL/SYSTEM TO REMAIN.
4. EXISTING FIRE ALARM/FIRE CALL DEVICES TO REMAIN.
5. RETAIN EXISTING POWER TO TOG WASHERS.
6. RETAIN EXISTING POWER TO DATA RACK.

A

B

C

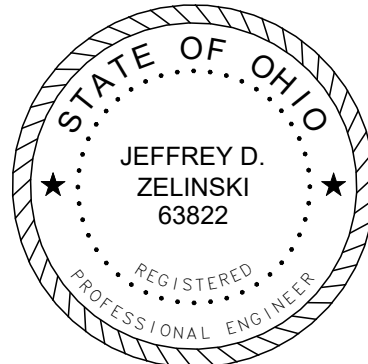
D

E

F

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EXPIRATION DATE 12/31/2025

CITY OF DAYTON  
**DAYTON FIRE DEPARTMENT  
STATION 16**

4111 Kings Highway, Dayton, Ohio, 45406

ISSUE		
NO.	DATE	DESCRIPTION
	08/01/2025	FOR CONSTRUCTION

DATE	05/29/25
JOB NO.	4284.01
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TITLE  
**BASEMENT DEMO PLAN**

SHEET NO.

**E1.0**



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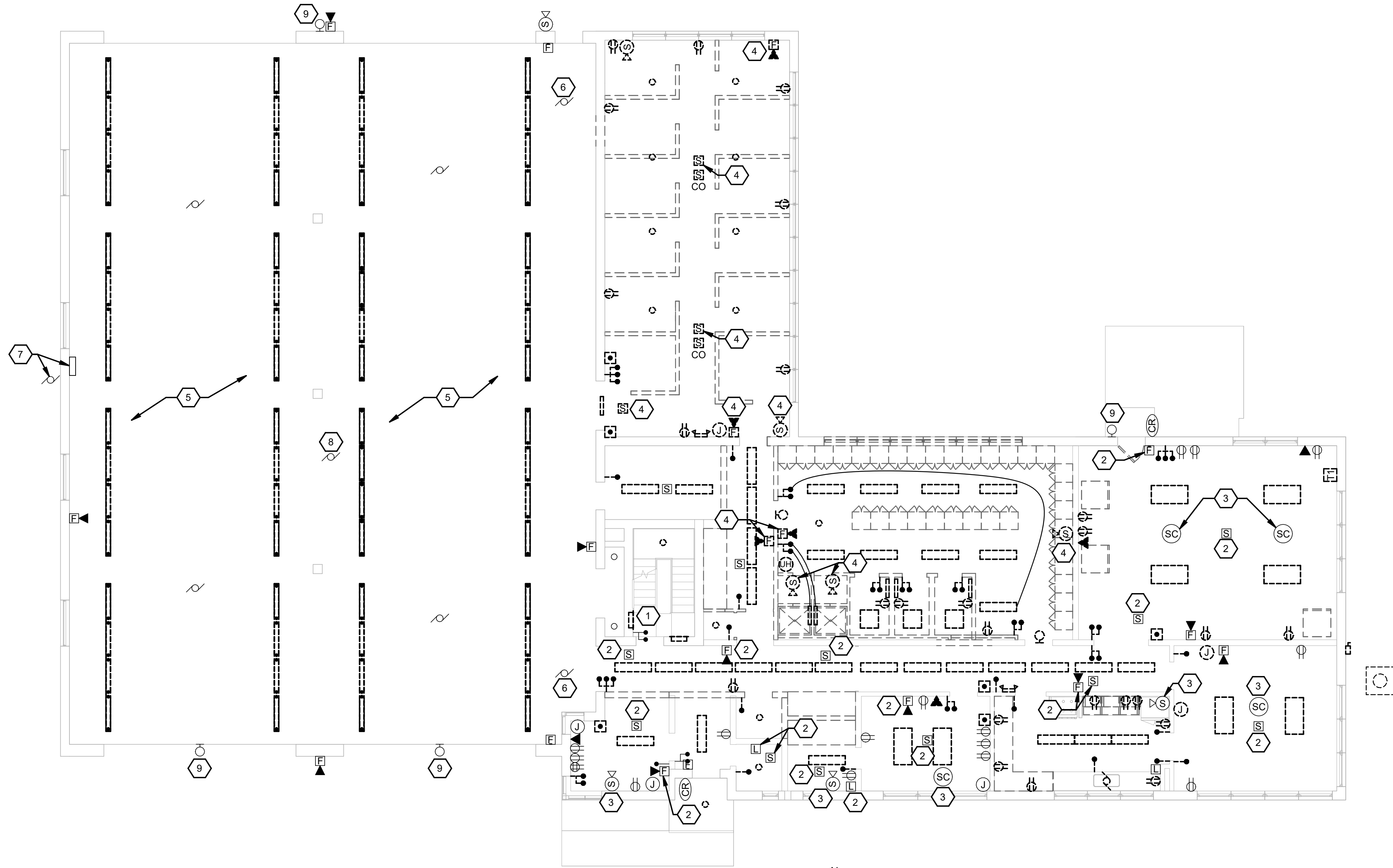
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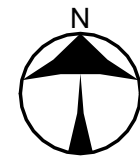
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# FIRST FLOOR DEMO PLAN

SCALE: 1/8" = 1'-0"



SCALE: 1/8"=1'-0"

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Phone: (937) 233-3821

## DEMOLITION NOTES

1. REPLACE EXISTING PANEL INTERIOR WITH NEW, FLUSH MOUNTED COVER. RETAIN PANEL TUB AND CONDUITS. REMOVE EXISTING WIRING FOR REUSE WHERE SHOWN AS EXISTING TO REMAIN FOR NEW CIRCUITRY. (36"H X 20"W TUB).
2. TEMPORARILY REMOVE/REINSTALL FIRE ALARM DEVICE TO ACCOMMODATE CEILING/WALL RENOVATION WORK.
3. TEMPORARILY REMOVE/REINSTALL FIRE CALL SYSTEM SPEAKER TO ACCOMMODATE CEILING/WALL RENOVATION WORK.
4. REMOVE FIRE ALARM/FIRE CALL DEVICE FOR REUSE. REFER TO NEW WORK PLAN.
5. SELECTIVE DEMOLITION IN APPARATUS BAY ONLY AS NOTED. FIRE ALARM, OVERHEAD DOOR, POWER, FIRE CALL SYSTEMS, POWER CORD DROPS TO REMAIN. LIGHTING REPLACED WITH NEW LED FIXTURES, IN SAME LOCATION, CONTROLS TO REMAIN.
6. DISCONNECT POWER TO UNIT HEATER TO ACCOMMODATE REMOVAL BY OTHERS. RETAIN CIRCUITRY FOR EXTENSION/CONNECTION TO NEW. REFER TO NEW WORK PLAN.
7. DISCONNECT AND REMOVE POWER TO VEHICLE EXHAUST EXTRACTION SYSTEM.
8. DISCONNECT POWER TO UNIT HEATER TO ACCOMMODATE REMOVAL BY OTHERS. RETAIN CIRCUITRY FOR EXTENSION/CONNECTION TO NEW EXHAUST FAN. REFER TO NEW WORK PLAN.
9. EXISTING EXTERIOR LIGHTS/CONTROLS TO REMAIN.

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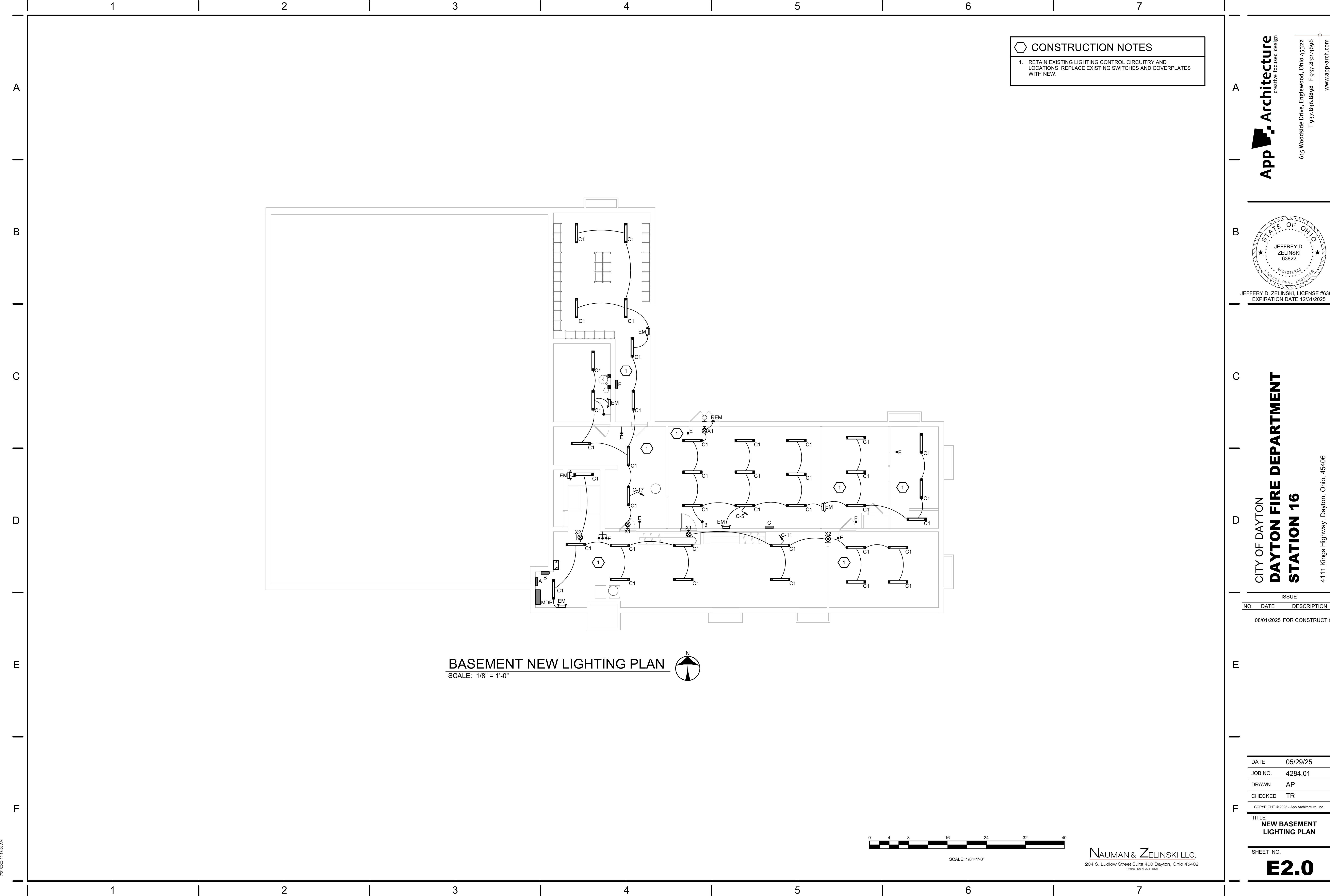
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CONSTRUCTION NOTES

1. RETAIN EXISTING LIGHTING CONTROL CIRCUITRY AND LOCATIONS. REPLACE EXISTING SWITCHES AND COVERPLATES WITH NEW.

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STATE OF OHIO

JEFFREY D. ZELINSKI

63822

REGISTERED PROFESSIONAL ENGINEER

JEFFREY D. ZELINSKI, LICENSE #63822  
EXPIRATION DATE 12/31/2025

CITY OF DAYTON

DAYTON FIRE DEPARTMENT

STATION 16

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NEW BASEMENT LIGHTING PLAN

SHEET NO.

E2.0

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7/31/2025 11:17:57 AM

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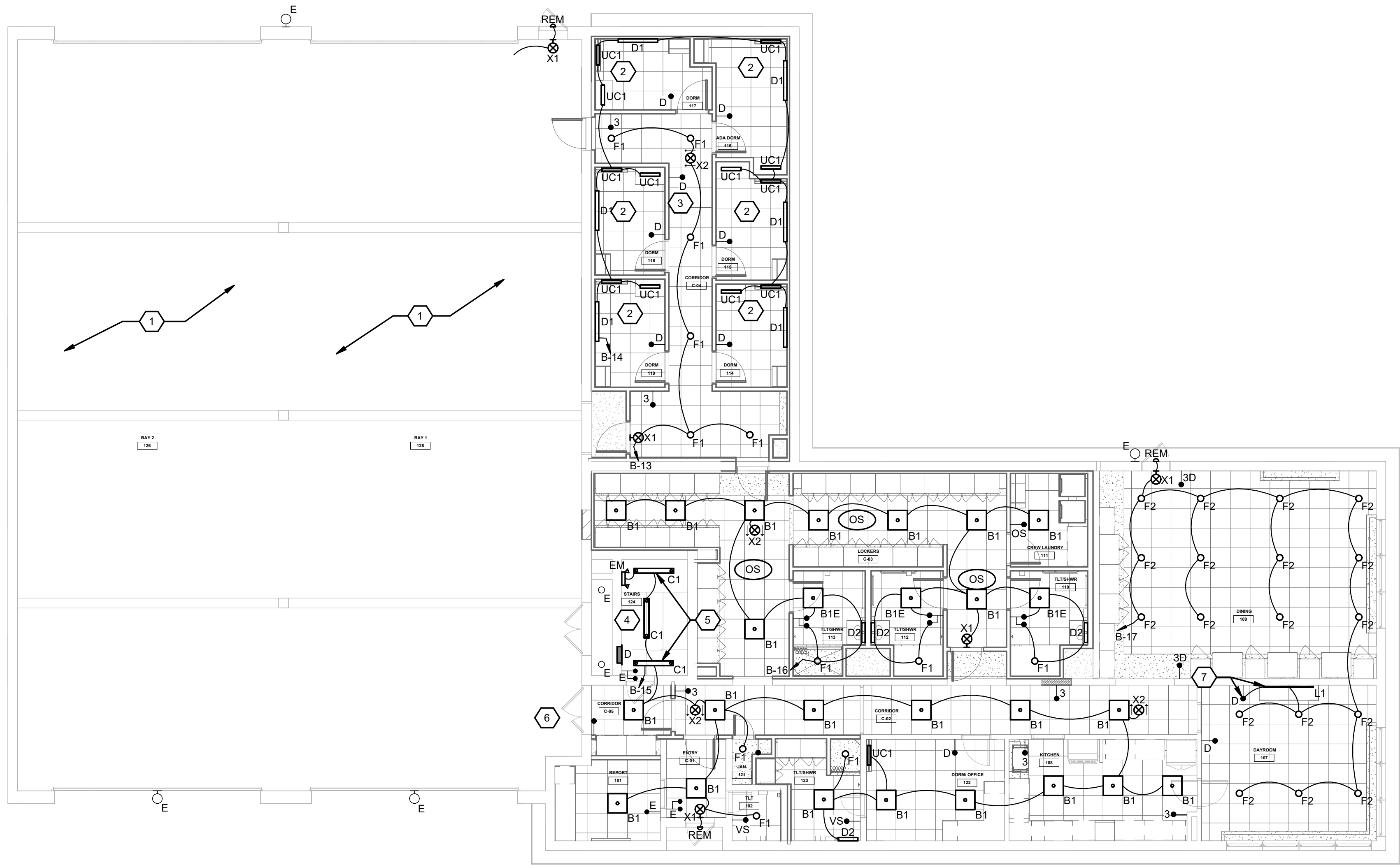
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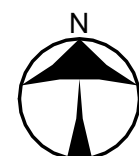
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# FIRST FLOOR NEW LIGHTING PLAN

SCALE: 1/8" = 1'-0"



SCALE: 1/8"=1'-0"

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## CONSTRUCTION NOTES

1. PROVIDE NEW LIGHTING IN APP BAY. CONNECT TO EXISTING CIRCUITRY/CONTROLS.
2. CONNECT UNDERCABINET LIGHTS AHEAD OF LOCAL ROOM LIGHTING CONTROL (UNDERCABINET LIGHTS CONTROLLED BY INTEGRAL SWITCH). COORDINATE ROUGH-IN LOCATION FOR UNDERCABINET LIGHTS WITH CASEWORK/HEADBOARD/ SHELVES.
3. PROVIDE THREE-WAY SWITCHING FOR DORM CORRIDOR AND SEPARATE DIMMING CONTROL AS SHOWN.
4. FIXTURE TO REPLACE EXISTING, TOP OF STAIRWELL AT CEILING.
5. FIXTURE TO REPLACE EXISTING, AT INTERMEDIATE LANDING.
6. MAINTAIN EXISTING LIGHTING CONTROLS IN APPARATUS BAY.
7. PROVIDE LINEAR TAPE LIGHT AT TOP OF TV DISPLAY CASE WORK. PROVIDE DIMMER FLUSH MOUNTED IN SIDE OF CASE WORK. CONNECT TO ROOM LIGHTING CIRCUIT.

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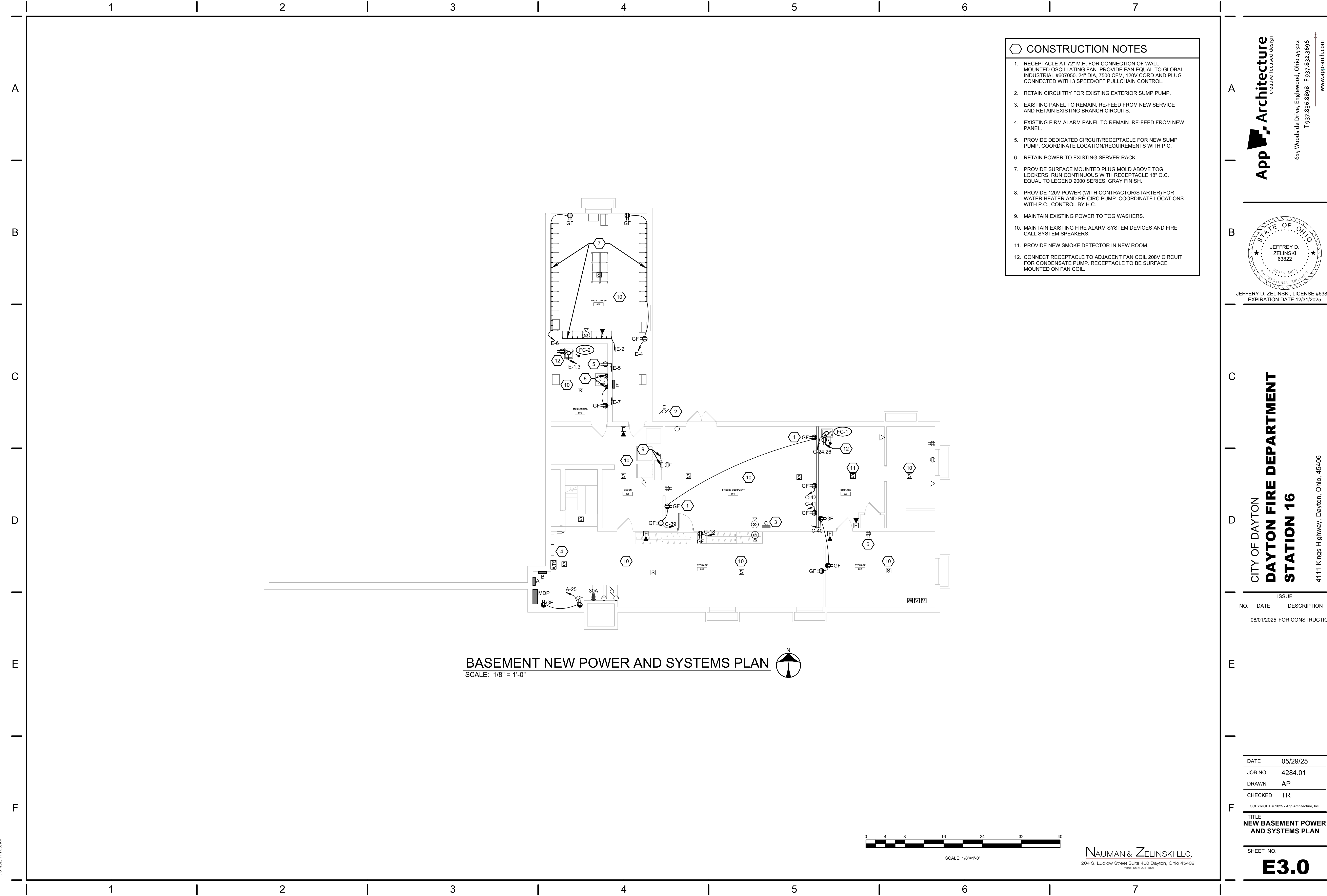
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TITLE  
**NEW FIRST FLOOR  
LIGHTING PLAN**

SHEET NO.

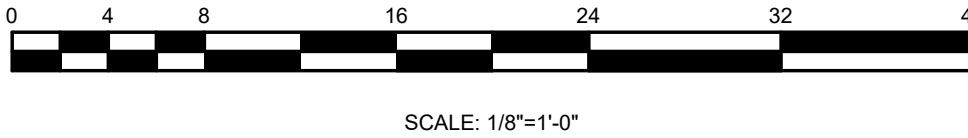
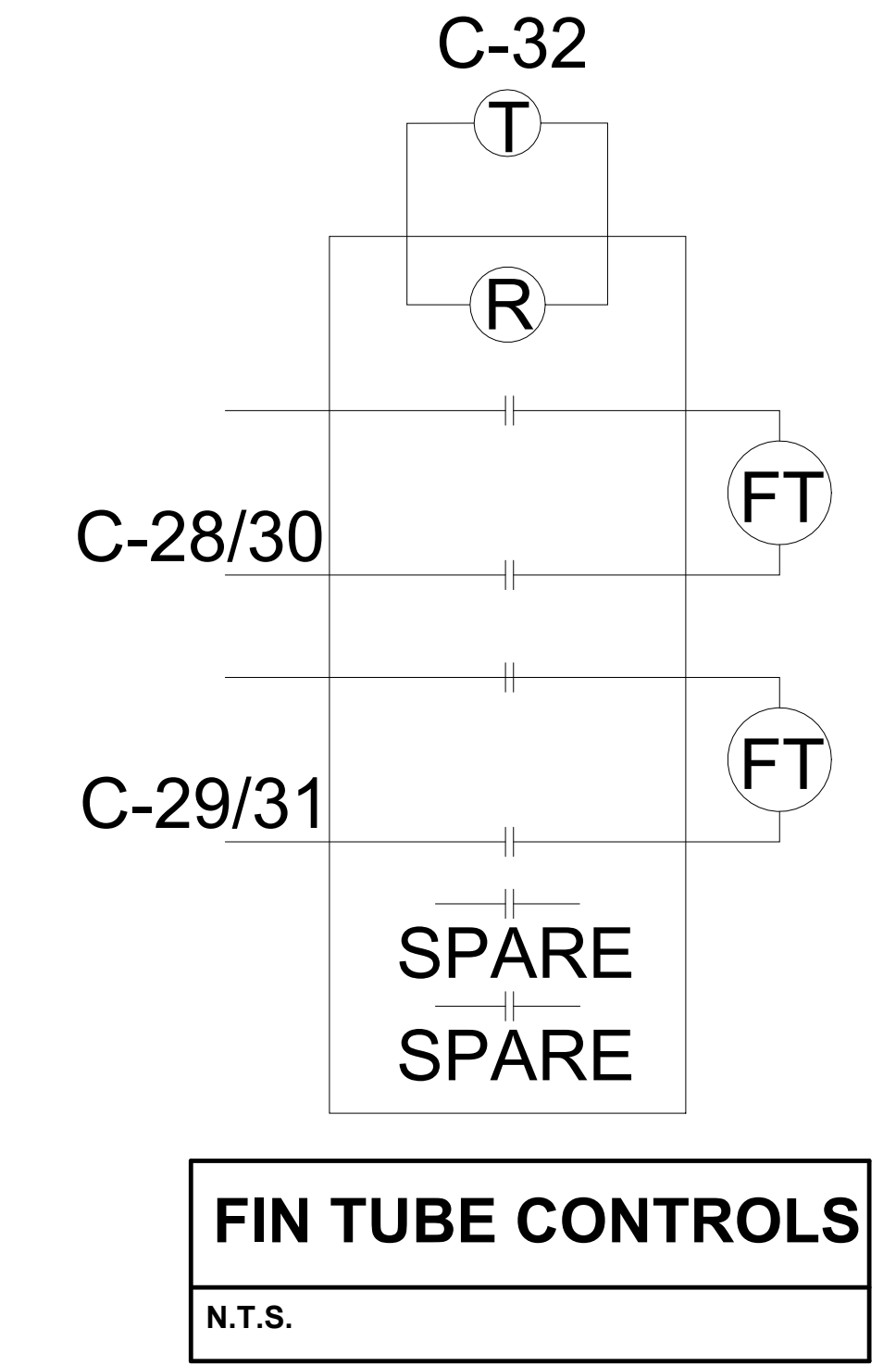
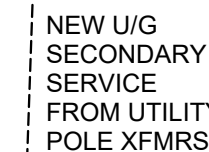
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**TITLE**  
**NEW FIRST FLOOR**  
**POWER AND SYSTEMS**  
**PLAN**

SHEET NO.

**E3.1**

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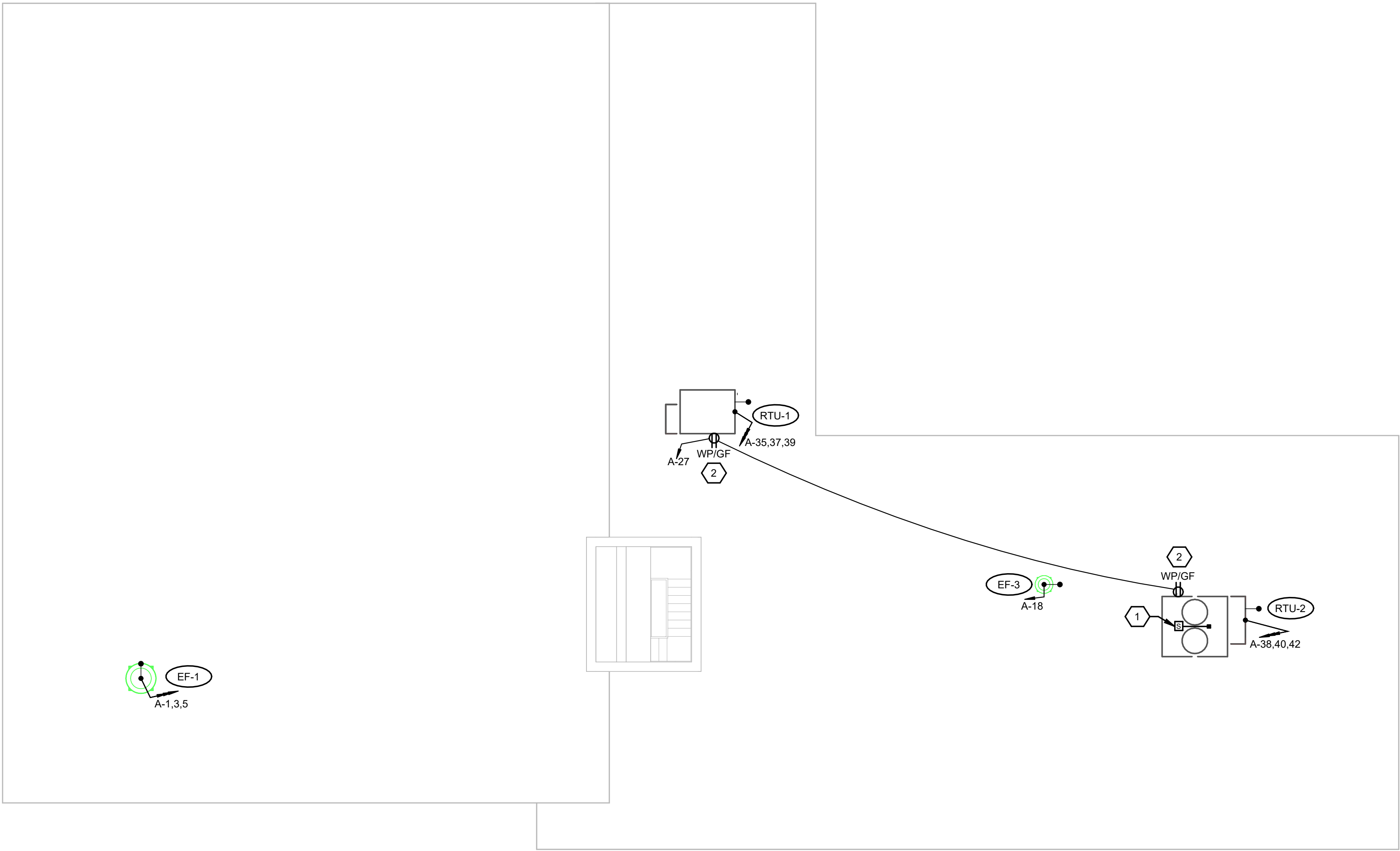
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## CONSTRUCTION NOTES

- DUCT DETECTOR LOCATED ABOVE CEILING OF DORM CORRIDOR. COORDINATE INSTALLATION WITH H.C.
- COORDINATE PENETRATIONS FOR POWER FEEDS TO ROOF MOUNTED EQUIPMENT WITH H.C.



## ROOF POWER AND SYSTEMS PLAN

SCALE: 1/8" = 1'-0"



SCALE: 1/8"=1'-0"

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**NEW ROOF POWER AND SYSTEMS PLAN**

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